

**Experiment Number:** 20537-01  
**Test Type:** 90-DAY  
**Route:** INTRADUCTAL CANNULATION  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Adenoviral Vector (AdhAQP1)  
**CAS Number:** HAQP1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 17:39:32  
**First Dose M/F:** NA / NA  
**Lab:** MBA

<b>C Number:</b>	C20537
<b>Lock Date:</b>	11/19/2007
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Male
<b>PWG Approval Date</b>	NONE

Experiment Number: 20537-01

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Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:32

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
VEHCONTRCOHRTA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	2	
	0	0	0	0	0	
	1	3	4	5	2	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Oral Mucosa	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Left, Parotid GI, Degeneration		1				1 1.0
Left, Parotid GI, Mitosis	2		1			2 1.5
Left, Submandibul GI, Degeneration		3	3			2 3.0
Left, Submandibul GI, Inflammation		2				1 2.0
Left, Submandibul GI, Mitosis	2					1 2.0
Left, Submandibul GI, Regeneration			2			1 2.0
Parotid GI, Right, Degeneration		2				1 2.0
Parotid GI, Right, Mitosis	2		1			2 1.5
Right, Submandibul GI, Degeneration				3	2	2 2.5
Right, Submandibul GI, Inflammation				1		1 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

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Lab: MBA

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VEHCONTRCOHRTA

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	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	2	
	0	0	0	0	0	
	1	3	4	5	2	<b>*TOTALS</b>

Right, Submandibul GI, Mitosis			1	2	2	1.5
Right, Submandibul GI, Regeneration	2			2	2	2.0
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5
Tongue	+	+	+	+	+	5
Necrosis	2				1	2.0
<b>Cardiovascular System</b>						
Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
<b>Endocrine System</b>						
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5
<b>General Body System</b>						
NONE						
<b>Genital System</b>						
Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5

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	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	2	
	0	0	0	0	0	
	1	3	4	5	2	
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	I	+	+	4
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5

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Lab: MBA

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VEHCONTRCOHRTA

	DAY ON TEST							
	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	0			
	3	3	3	3	3			
ANIMAL ID	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	2			
	0	0	0	0	0			
	1	3	4	5	2			
	<b>*TOTALS</b>							
Trachea	+	+	+	+	+	5		
<b>Special Senses System</b>								
Eye	+	+	+	+	+	5		
Retina, Dysplasia		1					1	1.0
Harderian Gland	+	+	+	+	+	5		
<b>Urinary System</b>								
Kidney	+	+	+	+	+	5		
Urinary Bladder	+	+	+	+	+	5		
Mucosa, Hyperplasia			1				1	1.0

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DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	1	
	6	7	8	9	0	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Hemorrhage, Diffuse					4		1 4.0
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation			1	1			2 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Right, Submandibul GI, Inflammation	1	1		1	1		4 1.0
Right, Submandibul GI, Regeneration	2	2	2	2	2		5 2.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Mineralization			1				1 1.0
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
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VEHCONTRCOHRTB

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	1	
	6	7	8	9	0	<b>*TOTALS</b>

Heart	+	+	+	+	+	5		
Cardiomyopathy				1			1	1.0
<b>Endocrine System</b>								
Adrenal Cortex	+	+	+	+	+	5		
Adrenal Medulla	+	+	+	+	+	5		
Islets, Pancreatic	+	+	+	+	+	5		
Parathyroid Gland	+	+	+	+	+	5		
Pituitary Gland	+	+	+	+	+	5		
Thyroid Gland	+	+	+	+	+	5		
<b>General Body System</b>								
NONE								
<b>Genital System</b>								
Epididymis	+	+	+	+	+	5		
Preputial Gland	+	+	+	+	+	5		
Prostate	+	+	+	+	+	5		
Inflammation	3				1		2	2.0
Seminal Vesicle	+	+	+	+	+	5		
Testes	+	+	+	+	+	5		
<b>Hematopoietic System</b>								
Bone Marrow	+	+	+	+	+	5		
Lymph Node, Mandibular	M	M	M	M	M	0		

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Lab: MBA

F 344/N Rat Male VEHCONTRCOHRTB	DAY ON TEST					*TOTALS
	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	
	5	5	5	5	5	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	1	
	6	7	8	9	0	
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	M	+	+	+	4
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						

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X ..Lesion present

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Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

**F 344/N Rat Male  
VEHCONTRCOHRTB**

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	1	
	6	7	8	9	0	<b>*TOTALS</b>
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

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Lab: MBA

F 344/N Rat Male  
VEHCONTRCOHRTC

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	4	9	9	9	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	1	2	3	4	5	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation	1		1	1		3	1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Right, Submandibul GI, Regeneration	1	1	1	1	1	5	1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	
Infiltration Cellular, Histiocyte, Focal					1	1	1.0

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy		1				1	1.0

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	0	0	0	0	0	
	2	2	2	2	2	
	9	4	9	9	9	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	1	2	3	4	5	*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	I	+	+	+	4
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

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Lab: MBA

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VEHCONTRCOHRTC

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	4	9	9	9	
	ANIMAL ID					
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	1	2	3	4	5	<b>*TOTALS</b>
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	M	M	+	M	+	2
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

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VEHCONTRCOHRTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	2	
	6	7	8	9	0	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation			1		1		2 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands			+		+	3	
Right, Submandibul GI, Regeneration			1		2 1		3 1.3
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy					1		1 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
VEHCONTRCOHRTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	6	7	8	9	2	*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	I	+	+	4
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
VEHCONTRCOHRTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	6	7	8	9	2	
						<b>*TOTALS</b>

Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	I	+	M	M	2
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
Degeneration		3				1 3.0
Inflammation		3				1 3.0
Regeneration		3				1 3.0
<b>Urinary System</b>						

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:33  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**VEHCONTRCOHRTD**

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	2	
	6	7	8	9	0	<b>*TOTALS</b>
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

M ..Missing tissue  
 A ..Autolysis precludes evaluation  
 BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
VEHCONTRCOHR E

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	1	2	3	4	5	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+		4	
Right, Submandibul GI, Regeneration	1	1	1	1		4	1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy	1		1		1	3	1.0

Endocrine System

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
VEHCONTRCOHR E

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	1	2	3	4	5	<b>*TOTALS</b>
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Pars Intermed, Hyperplasia, Focal			2			1 2.0
Rathkes Cleft, Cyst, Focal			2			1 2.0
Thyroid Gland	+	+	+	+	+	5
<b>General Body System</b>						
NONE						
<b>Genital System</b>						
Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	I	+	+	+	+	4
Spleen	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:33  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**VEHCONTRCOHR E**

	DAY ON TEST					
	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	1	2	3	4	5	*TOTALS
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	M	+	+	+	4
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	3	
	6	7	8	9	0	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Oral Mucosa	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Left, Parotid GI, Degeneration		1				1 1.0
Left, Parotid GI, Mitosis		2		1		2 1.5
Left, Submandibul GI, Degeneration			4			1 4.0
Left, Submandibul GI, Regeneration			4			1 4.0
Parotid GI, Right, Mitosis	2					1 2.0
Right, Submandibul GI, Degeneration	3	4	2	3	2	5 2.8
Right, Submandibul GI, Inflammation	1	2	1	1	1	5 1.2
Right, Submandibul GI, Regeneration	2	3	2	3	1	5 2.2
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTA

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	3	3	3	3	3
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	2	2	2	2	3
	6	7	8	9	0
	<b>*TOTALS</b>				

Mineralization				2	1	2	1.5
Tongue	+	+	+	+	+	5	
<b>Cardiovascular System</b>							
Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
<b>Endocrine System</b>							
Adrenal Cortex	+	+	+	+	+	5	
Adrenal Medulla	+	+	+	+	+	5	
Islets, Pancreatic	+	+	+	+	+	5	
Parathyroid Gland	+	+	+	+	+	5	
Pituitary Gland	+	+	+	+	+	5	
Thyroid Gland	+	+	+	+	+	5	
<b>General Body System</b>							
NONE							
<b>Genital System</b>							
Epididymis	+	+	+	+	+	5	
Inflammation			1			1	1.0
Preputial Gland	+	+	+	M	+	4	
Prostate	+	+	+	+	+	5	
Inflammation, Chronic					1	1	1.0
Inflammation, Suppurative, Acute, Focal		2				1	2.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	
		0	0	0	0	0
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	3	
	6	7	8	9	0	
						<b>*TOTALS</b>
Inflammation, Suppurative, Acute, Focal	2					1 2.0
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	M	+	4
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	3	
	6	7	8	9	0	
						<b>*TOTALS</b>

Special Senses System

Eye	+	+	+	+	+	5	
Retina, Atrophy		1					1 1.0
Harderian Gland	+	+	+	+	+	5	

Urinary System

Kidney	+	+	+	+	+	5	
Urinary Bladder	+	+	+	+	+	5	
Mineralization		1					1 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTB

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
	1	2	3	4	5	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Right, Submandibul GI, Inflammation	1		1			2	1.0
Right, Submandibul GI, Regeneration	3	2	3	3	3	5	2.8
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Mineralization				2	1	2	1.5
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy		1				1	1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTB

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
	1	2	3	4	5	*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTB

	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
	ANIMAL ID					
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
	1	2	3	4	5	
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:33

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTC

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	2	2	
	3	3	4	3	3	
	7	8	0	6	9	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation	1						1 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Left, Submandibul GI, Regeneration					1		1 1.0
Right, Submandibul GI, Regeneration	2	2	3	2			4 2.3
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy				1			1 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTC

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	2	2	2	2	2
	9	9	9	9	9
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	2	2
	3	3	4	3	3
	7	8	0	6	9
	*TOTALS				

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	1	+	4
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	1	+	+	+	+	4
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:34  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**2-8ADHAQP1COHTC**

	DAY ON TEST					
	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	2	2	
	3	3	4	3	3	
	7	8	0	6	9	<b>*TOTALS</b>
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	M	M	M	2
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	4	
	1	2	3	4	5	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Basophilic Focus					X	1	
Inflammation				1		1	1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Right, Submandibul GI, Regeneration	1	2	1	1	1	5	1.2
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy	1	1			1	3	1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTD

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	5	5	5	5	5
	7	7	7	7	7
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	4	4	4	4	4
	1	2	3	4	5

\*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:34  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male  
 2-8ADHAQP1COHTD**

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	4	
	1	2	3	4	5	<b>*TOTALS</b>
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	M	+	M	+	+	3
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Nephropathy					1	1 1.0
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTE

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	5	
	6	7	8	9	0	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation		1					1 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Acinus, Atrophy	1						1 1.0
Salivary Glands	+	+	+		+	4	
Left, Sublingual GI, Regeneration	1						1 1.0
Left, Submandibular GI, Regeneration		1					1 1.0
Right, Submandibular GI, Regeneration	1		1		1		3 1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
--------------	---	---	---	---	---	---	--

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTE

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	5	
	6	7	8	9	0	
						<b>*TOTALS</b>

Heart	+	+	+	+	+	5		
Cardiomyopathy	1	1	1	1			4	1.0

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	5		
Adrenal Medulla	+	+	+	+	+	5		
Islets, Pancreatic	+	+	+	+	+	5		
Parathyroid Gland	+	+	+	+	+	5		
Pituitary Gland	+	+	+	+	+	5		
Thyroid Gland	+	+	+	+	+	5		

**General Body System**

NONE

**Genital System**

Epididymis	+	+	+	+	+	5		
Preputial Gland	+	I	+	+	+	4		
Prostate	+	+	+	+	+	5		
Seminal Vesicle	+	+	+	+	+	5		
Testes	+	+	+	+	+	5		

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	5		
Lymph Node, Mandibular	M	M	M	M	M	0		
Lymph Node, Mesenteric	+	+	+	+	+	5		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-8ADHAQP1COHTE

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	5	
	6	7	8	9	0	<b>*TOTALS</b>
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	M	+	4
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
Inflammation			1			1 1.0
<b>Urinary System</b>						

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

**F 344/N Rat Male  
2-8ADHAQP1COHTE**

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	5	
	6	7	8	9	0	<b>*TOTALS</b>
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	2	
	5	5	5	5	5	
	1	2	3	4	5	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Left, Parotid Gl, Mitosis	1	2	2		1	4	1.5
Left, Submandibul Gl, Degeneration	4					1	4.0
Left, Submandibul Gl, Inflammation	3					1	3.0
Left, Submandibul Gl, Regeneration	2					1	2.0
Parotid Gl, Right, Degeneration		2			1	2	1.5
Parotid Gl, Right, Mitosis	2	2	2			3	2.0
Parotid Gl, Right, Regeneration		2				1	2.0
Right, Submandibul Gl, Degeneration		3	4	4	3	4	3.5
Right, Submandibul Gl, Inflammation		3	2	2	2	4	2.3
Right, Submandibul Gl, Regeneration		2	2	2	2	4	2.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTA

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	2	
	5	5	5	5	5	
	1	2	3	4	5	
	<b>*TOTALS</b>					
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5
Tongue	+	+	+	+	+	5
<b>Cardiovascular System</b>						
Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
Cardiomyopathy	1	1				2 1.0
<b>Endocrine System</b>						
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5
<b>General Body System</b>						
NONE						
<b>Genital System</b>						
Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTA

	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	3	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	2	
	5	5	5	5	5	
	1	2	3	4	5	
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5
<b>Hematopoietic System</b>						
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	+	M	M	M	1
Lymph Node, Mesenteric	+	+	+	+	I	4
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:34  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**8-9ADHAQP1COHTA**

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	3	3	3	3	3
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	2
	5	5	5	5	5
	1	2	3	4	5
	<b>*TOTALS</b>				

**Special Senses System**

Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5

**Urinary System**

Kidney	+	+	+	+	+	5
Renal Tubule, Casts Protein			1			1 1.0
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTB

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	5	5	5	5	5
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	5	5	5	5	6
	6	7	8	9	0

\*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Oral Mucosa	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Left, Submandibul GI, Inflammation				1		1 1.0
Left, Submandibul GI, Regeneration				1		1 1.0
Right, Sublingul GI, Inflammation				2		1 2.0
Right, Sublingul GI, Regeneration				3		1 3.0
Right, Submandibul GI, Inflammation	3	2	3		2	4 2.5
Right, Submandibul GI, Regeneration	3	2	3		3	4 2.8
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5
Mineralization	1					1 1.0
Tongue	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTB

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	6	
	6	7	8	9	0	
						<b>*TOTALS</b>
						1 3.0

Fibrosis, Focal						3	1	3.0
<b>Cardiovascular System</b>								
Blood Vessel	+	+	+	+	+		5	
Heart	+	+	+	+	+		5	
<b>Endocrine System</b>								
Adrenal Cortex	+	+	+	+	+		5	
Adrenal Medulla	+	+	+	+	+		5	
Islets, Pancreatic	+	+	+	+	+		5	
Parathyroid Gland	+	+	+	+	+		5	
Pituitary Gland	+	+	+	+	+		5	
Thyroid Gland	+	+	+	+	+		5	
<b>General Body System</b>								
NONE								
<b>Genital System</b>								
Epididymis	+	+	+	+	+		5	
Preputial Gland	+	+	+	+	+		5	
Prostate	+	+	+	+	+		5	
Seminal Vesicle	+	+	+	+	+		5	
Testes	+	+	+	+	+		5	
<b>Hematopoietic System</b>								

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTB

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	6	7	8	9	0	
		<b>*TOTALS</b>				
Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	M	M	+	+	+	3
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 20537-01  
**Test Type:** 90-DAY  
**Route:** INTRADUCTAL CANNULATION  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Adenoviral Vector (AdhAQP1)  
**CAS Number:** HAQP1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 17:39:34  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**F 344/N Rat Male**  
**8-9ADHAQP1COHTB**

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	1	1	1	1	1
	5	5	5	5	5
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	5	5	5	5	6
	6	7	8	9	0
	<b>*TOTALS</b>				

**Urinary System**

Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTC

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	2	2	2	2	2
	9	9	9	9	9
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	6	6	6	6	6
	1	2	3	4	5
	*TOTALS				

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation	1						1 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Left, Submandibul GI, Regeneration				1	1		2 1.0
Right, Submandibul GI, Regeneration	3	1	2	2	2		5 2.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Mineralization		1					1 1.0
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTC

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	6	6	6	6	6	
	1	2	3	4	5	<b>*TOTALS</b>

Cardiomyopathy				1	1	2	1.0
<b>Endocrine System</b>							
Adrenal Cortex	+	+	+	+	+	5	
Adrenal Medulla	+	+	+	+	+	5	
Islets, Pancreatic	+	+	+	+	+	5	
Parathyroid Gland	+	+	+	M	+	4	
Pituitary Gland	+	+	+	+	+	5	
Thyroid Gland	+	+	+	+	+	5	
<b>General Body System</b>							
NONE							
<b>Genital System</b>							
Epididymis	+	+	+	+	+	5	
Preputial Gland	+	+	+	+	+	5	
Prostate	+	+	+	+	+	5	
Seminal Vesicle	+	+	+	+	+	5	
Testes	+	+	+	+	+	5	
<b>Hematopoietic System</b>							
Bone Marrow	+	+	+	+	+	5	
Lymph Node, Mandibular	M	M	M	M	M	0	
Lymph Node, Mesenteric	+	+	+	+	+	5	
Spleen	+	+	+	+	+	5	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTC

	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	6	6	6	6	6	
	1	2	3	4	5	
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	M	M	+	M	2
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:34

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	6	6	6	6	7	
	6	7	8	9	0	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Hemorrhage		3	4				2 3.5
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Right, Submandibul GI, Inflammation			1				1 1.0
Right, Submandibul GI, Regeneration	1	1	1	1	1		5 1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy		1	1		1		3 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9ADHAQP1COHTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	6	6	6	6	7	
	6	7	8	9	0	*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:35  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**8-9ADHAQP1COHTD**

	DAY ON TEST					
	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	*TOTALS
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	M	+	+	+	M	3
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5
Mucosa, Hyperplasia				2		1 2.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9AJDAQP1COHTE

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	7	7	7	7	7	
	1	2	3	4	5	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation			1				1 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands		+		+	+	3	
Left, Submandibul GI, Regeneration				1			1 1.0
Right, Submandibul GI, Regeneration		1			1		2 1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

Cardiovascular System

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy	1	1	1		1		4 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
8-9AJDAQP1COHTE

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	7	7	7	7	7	
	1	2	3	4	5	*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	I	4
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

**F 344/N Rat Male  
8-9AJDAQP1COHTE**

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	7	7	7	7	7	
	1	2	3	4	5	<b>*TOTALS</b>
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	+	M	4
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 2-11ADHAQP1COHTA	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		3	3	3	3	3
	ANIMAL ID	0	0	0	0	0
	0	0	0	0	0	
	0	0	0	0	0	
	7	7	7	7	8	
	6	7	8	9	0	
					*TOTALS	

Alimentary System

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Oral Mucosa	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Left, Parotid GI, Mitosis				1		1 1.0
Left, Submandibul GI, Degeneration			3			1 3.0
Left, Submandibul GI, Inflammation			2			1 2.0
Left, Submandibul GI, Regeneration			1			1 1.0
Parotid GI, Right, Degeneration				2		1 2.0
Parotid GI, Right, Mitosis	1			1		2 1.0
Parotid GI, Right, Regeneration					2	1 2.0
Right, Submandibul GI, Degeneration	4	4		2	4	4 3.5
Right, Submandibul GI, Inflammation	2			2	3	3 2.3
Right, Submandibul GI, Regeneration	3	2		2	2	4 2.3

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:35  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male 2-11ADHAQP1COHTA	DAY ON TEST					ANIMAL ID		
	0	0	0	0	0			
	0	0	0	0	0			
	3	3	3	3	3			
	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	0			
	7	7	7	7	7			
	6	7	8	9	0			
							<b>*TOTALS</b>	
Stomach, Forestomach	+	+	+	+	+			5
Stomach, Glandular	+	+	+	+	+			5
Tongue	+	+	+	+	+			5
<b>Cardiovascular System</b>								
Blood Vessel	+	+	+	+	+			5
Heart	+	+	+	+	+			5
Cardiomyopathy	1						1	1.0
<b>Endocrine System</b>								
Adrenal Cortex	+	+	+	+	+			5
Adrenal Medulla	+	+	+	+	+			5
Islets, Pancreatic	+	+	+	+	+			5
Parathyroid Gland	+	+	+	+	+			5
Pituitary Gland	+	+	+	+	+			5
Thyroid Gland	+	+	+	+	+			5
<b>General Body System</b>								
NONE								
<b>Genital System</b>								
Epididymis	+	+	+	+	+			5
Preputial Gland	+	+	+	+	+			5
Prostate	+	+	+	+	+			5
Seminal Vesicle	+	+	+	+	+			5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 2-11ADHAQP1COHTA	DAY ON TEST	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		7	7	7	7	8	
		6	7	8	9	0	
Seminal Vesicle		+	+	+	+	+	5
Testes		+	+	+	+	+	5
<b>Hematopoietic System</b>							
Bone Marrow		+	+	+	+	+	5
Lymph Node, Mandibular		M	M	M	M	M	0
Lymph Node, Mesenteric		+	+	+	+	+	5
Spleen		+	+	+	+	+	5
Thymus		+	+	+	+	+	5
<b>Integumentary System</b>							
Mammary Gland		M	+	+	+	M	3
Skin		+	+	+	+	+	5
<b>Musculoskeletal System</b>							
Bone		+	+	+	+	+	5
<b>Nervous System</b>							
Brain		+	+	+	+	+	5
<b>Respiratory System</b>							
Lung		+	+	+	+	+	5
Nose		+	+	+	+	+	5
Trachea		+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-11ADHAQP1COHTA

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	3	3	3	3	3
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	7	7	7	7	8
	6	7	8	9	0
	*TOTALS				

Special Senses System

Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5

Urinary System

Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:35  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male 2-11ADHAQP1COHTB	DAY ON TEST	0	0	0	0	0	*TOTALS
		0	0	0	0	0	
	1	1	1	1	1	1	
	5	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	8	8	8	8	8	8	
	1	2	3	4	5	5	

**Alimentary System**

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Hemorrhage, Acute, Diffuse			4				1 4.0
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Left, Submandibul GI, Inflammation			1	1			2 1.0
Right, Submandibul GI, Inflammation	3	3	2	2	3		5 2.6
Right, Submandibul GI, Regeneration	3	3	2	2	3		5 2.6
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

<b>F 344/N Rat Male</b> <b>2-11ADHAQP1COHTB</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		5	5	5	5	5	
	ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0		
	0	0	0	0	0		
	8	8	8	8	8		
	1	2	3	4	5	<b>*TOTALS</b>	

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

**General Body System**

NONE

**Genital System**

Epididymis	+	+	+	+	+	5
Preputial Gland	+	M	+	+	+	4
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

**Hematopoietic System**

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-11ADHAQP1COHTB

	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	5	5	5	5	5	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	8	8	8	8	8	
	1	2	3	4	5	
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	M	+	+	4
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:35  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 2-11ADHAQP1COHTC

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	8	8	8	8	8	
	6	7	8	9	0	
						*TOTALS

**Alimentary System**

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+	+	5	
Right, Submandibul GI, Inflammation	1	1	1	2	1	5	1.2
Right, Submandibul GI, Regeneration	2	1	2	2	2	5	1.8
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy			1	1	1	3	1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-11ADHAQP1COHTC

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	8	8	8	8	8	
	6	7	8	8	9	
						*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	I	+	+	+	+	4
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:35  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male  
 2-11ADHAQP1COHTC**

	DAY ON TEST					
	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	8	8	8	8	8	
	6	7	8	9	9	*TOTALS
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	M	+	M	+	3
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:35  
 First Dose M/F: NA / NA  
 Lab: MBA

F 344/N Rat Male  
 2-11ADHAQP1COHTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	1	2	3	4	5	*TOTALS

**Alimentary System**

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation			1		1		2 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Acinus, Atrophy					2		1 2.0
Salivary Glands	+	+		+	+	4	
Right, Submandibul GI, Regeneration	1	2		1	1		4 1.3
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	5	
Heart	+	+	+	+	+	5	
Cardiomyopathy	1		1		1		3 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-11ADHAQP1COHTD

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	1	2	3	4	5	*TOTALS

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	M	4
Prostate	+	+	+	+	+	5
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-11ADHAQP1COHTD

	DAY ON TEST					
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	1	2	3	4	5	<b>*TOTALS</b>
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	M	+	+	+	M	3
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

<b>F 344/N Rat Male</b> <b>2-11ADHAQP1COHTE</b>	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		9	9	9	9	9	
		2	2	2	2	2	
	ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0		
	0	0	0	0	1		
	9	9	9	9	9		
	6	7	8	9	9		
						<b>*TOTALS</b>	

**Alimentary System**

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation			1				1 1.0
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+	+	+		4	
Left, Submandibul GI, Regeneration				1			1 1.0
Right, Submandibul GI, Inflammation			1				1 1.0
Right, Submandibul GI, Regeneration	1	1	1				3 1.0
Stomach, Forestomach	+	+	+	+	+	5	
Stomach, Glandular	+	+	+	+	+	5	
Tongue	+	+	+	+	+	5	

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male  
2-11ADHAQP1COHTE

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	1	
	9	9	9	9	0	
	6	7	8	9	0	
						<b>*TOTALS</b>
Cardiomyopathy	1	1	1			3 1.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	I	+	+	+	+	4
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	5
Preputial Gland	+	+	+	+	+	5
Prostate	+	+	+	+	+	5
Inflammation, Acute, Focal				2		1 2.0
Seminal Vesicle	+	+	+	+	+	5
Testes	+	+	+	+	+	5

Hematopoietic System

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01

Test Type: 90-DAY

Route: INTRADUCTAL CANNULATION

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Adenoviral Vector (AdhAQP1)

CAS Number: HAQP1

Date Report Requested: 10/19/2014

Time Report Requested: 17:39:35

First Dose M/F: NA / NA

Lab: MBA

F 344/N Rat Male 2-11ADHAQP1COHTE	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	1	
	9	9	9	9	0	
	6	7	8	9	0	
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
<b>Integumentary System</b>						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
<b>Musculoskeletal System</b>						
Bone	+	+	+	+	+	5
<b>Nervous System</b>						
Brain	+	+	+	+	+	5
<b>Respiratory System</b>						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
<b>Special Senses System</b>						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
<b>Urinary System</b>						
Kidney	+	+	+	+	+	5

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20537-01  
 Test Type: 90-DAY  
 Route: INTRADUCTAL CANNULATION  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Adenoviral Vector (AdhAQP1)  
 CAS Number: HAQP1

Date Report Requested: 10/19/2014  
 Time Report Requested: 17:39:35  
 First Dose M/F: NA / NA  
 Lab: MBA

**F 344/N Rat Male**  
**2-11ADHAQP1COHTE**

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
ANIMAL ID	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	1
	9	9	9	9	0
	6	7	8	9	0
	<b>*TOTALS</b>				
	5				

Urinary Bladder

+ + + + +

\*\*\*END OF MALE DATA\*\*\*

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 20537-01  
**Test Type:** 90-DAY  
**Route:** INTRADUCTAL CANNULATION  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Adenoviral Vector (AdhAQP1)  
**CAS Number:** HAQP1

**Date Report Requested:** 10/19/2014  
**Time Report Requested:** 17:39:35  
**First Dose M/F:** NA / NA  
**Lab:** MBA

**\*\* END OF REPORT \*\***

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked