

**Study Number:** MOG006  
**Test Type:** MOG - Range Finding  
**Route:** Oral Gavage - Constant Volume  
**Species/Strain:** Rat/Sprague-Dawley

**R19: Pup Mean Body Weight Summary**

**Test Compound:** Hydroxyurea  
**CAS Number:** 127-07-1

**Date Report Requested:** 03/02/2020  
**Time Report Requested:** 16:03:33  
**Lab:** RTI

**C Number:**

MOG006

**Study Gender:**

Female

**PWG Approval Date**

See web page for date of PWG Approval

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F1 Males

Treatment Groups (mg/kg/day)

Phase	0		37.5			75			100		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.62 ± 0.19 *	58 (8)	6.69 ± 0.25 **	87.76	33 (6)	6.91 ± 0.12 *	90.67	48 (7)	7.08 ± 0.11	92.89	43 (6)
PND4	10.35 ± 0.36	57 (8)	9.78 ± 0.36	94.48	31 (5)	9.41 ± 0.41	90.87	44 (7)	9.58 ± 0.40	92.58	43 (6)
PND7	14.12 ± 0.50	56 (8)	13.65 ± 0.53	96.73	30 (5)	13.22 ± 0.36	93.68	44 (7)	13.30 ± 0.49	94.23	42 (6)
PND10	19.14 ± 0.64	55 (8)	18.19 ± 0.80	95.02	30 (5)	18.44 ± 0.35	96.31	44 (7)	18.16 ± 0.52	94.88	41 (6)
PND11	21.09 ± 0.70	55 (8)	20.31 ± 0.73	96.29	30 (5)	20.50 ± 0.42	97.19	44 (7)	20.28 ± 0.49	96.16	41 (6)
PND12	22.96 ± 0.80	55 (8)	22.10 ± 0.68	96.25	30 (5)	22.16 ± 0.48	96.53	44 (7)	22.09 ± 0.45	96.20	41 (6)
PND13	24.83 ± 0.87 *	55 (8)	23.97 ± 0.69	96.53	30 (5)	24.09 ± 0.57	97.01	44 (7)	23.55 ± 0.51	94.83	41 (6)
PND14	26.91 ± 0.86 *	54 (8)	25.81 ± 0.72	95.92	30 (5)	25.76 ± 0.53	95.71	44 (7)	25.16 ± 0.42	93.50	41 (6)
PND15	28.58 ± 0.89 *	54 (8)	27.38 ± 0.68	95.81	30 (5)	27.24 ± 0.67	95.34	44 (7)	26.62 ± 0.42	93.16	41 (6)
PND16	30.67 ± 0.97 **	54 (8)	28.78 ± 0.77	93.84	30 (5)	28.52 ± 0.67	92.98	44 (7)	27.79 ± 0.43	90.60	41 (6)
PND17	32.43 ± 1.17 **	54 (8)	30.10 ± 0.69	92.82	30 (5)	29.34 ± 0.86	90.48	44 (7)	29.13 ± 0.57	89.83	41 (6)
PND18	34.67 ± 1.25 **	54 (8)	31.97 ± 1.02	92.22	30 (5)	30.86 ± 0.92 *	89.02	44 (7)	30.44 ± 0.65 *	87.79	41 (6)
PND19	37.81 ± 1.42 **	54 (8)	34.44 ± 1.63	91.10	30 (5)	31.74 ± 1.13 **	83.97	44 (7)	31.41 ± 0.90 **	83.07	41 (6)
PND20	41.87 ± 1.49 **	54 (8)	38.32 ± 1.94	91.52	30 (5)	33.39 ± 1.12 **	79.74	44 (7)	32.61 ± 0.99 **	77.88	41 (6)
PND21	45.91 ± 1.54 **	54 (8)	42.54 ± 1.76	92.67	30 (5)	35.79 ± 1.11 **	77.95	44 (7)	33.96 ± 1.09 **	73.96	41 (6)
PND22	49.57 ± 1.46 **	54 (8)	46.82 ± 1.91	94.45	30 (5)	38.57 ± 1.24 **	77.80	44 (7)	35.20 ± 1.11 **	71.01	41 (6)
PND23	54.34 ± 1.52 **	54 (8)	51.17 ± 2.04	94.17	30 (5)	41.56 ± 1.42 **	76.49	44 (7)	37.05 ± 0.99 **	68.18	39 (6)
PND24	58.74 ± 1.47 **	54 (8)	55.90 ± 2.00	95.17	30 (5)	46.71 ± 1.64 **	79.52	44 (7)	39.20 ± 0.92 **	66.73	38 (6)
PND25	64.47 ± 1.69 **	54 (8)	60.18 ± 2.19	93.34	30 (5)	51.35 ± 2.03 **	79.64	44 (7)	41.36 ± 1.12 **	64.15	37 (6)
PND26	69.24 ± 1.24 **	54 (8)	65.25 ± 2.57	94.24	30 (5)	55.51 ± 2.19 **	80.17	44 (7)	43.28 ± 1.61 **	62.51	37 (6)
PND27	74.32 ± 1.48 **	54 (8)	70.78 ± 2.70	95.24	30 (5)	60.94 ± 2.68 **	82.00	44 (7)	45.39 ± 1.73 **	61.07	36 (6)
PND28	77.57 ± 2.30 **	54 (8)	71.11 ± 3.85	91.68	30 (5)	62.23 ± 2.39 **	80.23	44 (7)	47.02 ± 2.00 **	60.62	34 (6)

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F1 Males

Phase	Treatment Groups (mg/kg/day)		
	150		
	WT (g)	% of CNTL	N
PND1	6.92 ± 0.13 *	90.73	41 (7)
PND4	9.56 ± 0.28	92.31	34 (6)
PND7	13.33 ± 0.51	94.43	33 (6)
PND10	17.73 ± 0.77	92.60	33 (6)
PND11	19.42 ± 1.08	92.07	33 (6)
PND12	20.80 ± 1.24	90.59	33 (6)
PND13	22.00 ± 1.34	88.58	33 (6)
PND14	23.79 ± 1.45	88.39	31 (6)
PND15	25.63 ± 1.48	89.68	30 (6)
PND16	26.27 ± 1.85 *	85.64	29 (6)
PND17	26.02 ± 2.09 **	80.22	29 (6)
PND18	27.65 ± 0.97 **	79.74	22 (5)
PND19	NR		
PND20	NR		
PND21	NR		
PND22	NR		
PND23	NR		
PND24	NR		
PND25	NR		
PND26	NR		
PND27	NR		
PND28	NR		

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Lab: RTI

F1 Females

Treatment Groups (mg/kg/day)

Phase	0		37.5			75			100		
	WT (g)	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.30 ± 0.22 *	46 (8)	6.53 ± 0.25 *	89.33	35 (6)	6.65 ± 0.12 *	90.99	39 (7)	6.85 ± 0.13	93.83	43 (7)
PND4	9.97 ± 0.41 *	42 (8)	9.31 ± 0.27	93.35	32 (5)	9.02 ± 0.39	90.49	39 (7)	8.97 ± 0.35	89.93	43 (7)
PND7	13.47 ± 0.55	42 (8)	12.97 ± 0.40	96.30	32 (5)	12.73 ± 0.41	94.51	39 (7)	12.52 ± 0.47	92.97	43 (7)
PND10	18.75 ± 0.74	42 (8)	17.49 ± 0.72	93.27	32 (5)	17.68 ± 0.54	94.26	39 (7)	16.87 ± 0.66	89.96	43 (7)
PND11	20.35 ± 0.73	42 (8)	19.58 ± 0.68	96.23	32 (5)	19.44 ± 0.58	95.54	39 (7)	18.75 ± 0.75	92.12	43 (7)
PND12	22.45 ± 0.85 *	42 (8)	21.33 ± 0.63	94.98	32 (5)	21.20 ± 0.60	94.43	39 (7)	20.34 ± 0.72	90.58	43 (7)
PND13	24.41 ± 0.96 **	42 (8)	23.08 ± 0.66	94.54	32 (5)	22.82 ± 0.72	93.50	39 (7)	21.50 ± 0.75	88.09	43 (7)
PND14	26.16 ± 1.01 **	42 (8)	24.61 ± 0.62	94.10	32 (5)	24.45 ± 0.78	93.47	39 (7)	23.08 ± 0.73	88.24	43 (7)
PND15	27.85 ± 0.98 **	42 (8)	26.25 ± 0.66	94.26	32 (5)	25.82 ± 0.86	92.73	39 (7)	24.23 ± 0.83 *	87.02	43 (7)
PND16	29.29 ± 1.20 **	42 (8)	27.38 ± 0.70	93.50	32 (5)	27.03 ± 0.86	92.30	39 (7)	25.32 ± 0.88 *	86.47	43 (7)
PND17	31.32 ± 1.32 **	42 (8)	28.81 ± 0.65	91.98	32 (5)	28.58 ± 0.87	91.24	39 (7)	26.38 ± 0.92 *	84.24	43 (7)
PND18	33.41 ± 1.45 **	42 (8)	30.71 ± 0.98	91.90	32 (5)	29.30 ± 0.98	87.71	39 (7)	27.13 ± 1.23 **	81.20	43 (7)
PND19	36.75 ± 1.52 **	42 (8)	33.42 ± 1.51	90.93	32 (5)	30.37 ± 0.98 **	82.65	39 (7)	28.15 ± 1.30 **	76.60	43 (7)
PND20	40.35 ± 1.60 **	42 (8)	37.18 ± 1.77	92.15	32 (5)	31.69 ± 0.94 **	78.53	39 (7)	28.82 ± 1.50 **	71.42	43 (7)
PND21	44.32 ± 1.52 **	42 (8)	41.06 ± 1.62	92.64	32 (5)	34.15 ± 1.05 **	77.05	39 (7)	29.95 ± 1.54 **	67.59	43 (7)
PND22	47.65 ± 1.44 **	41 (8)	44.65 ± 1.73	93.71	32 (5)	36.69 ± 1.25 **	77.00	39 (7)	31.61 ± 1.44 **	66.34	41 (7)
PND23	51.53 ± 1.43 **	41 (8)	48.66 ± 1.76	94.43	32 (5)	39.14 ± 1.50 **	75.96	39 (7)	33.67 ± 1.47 **	65.33	41 (7)
PND24	55.91 ± 1.28 **	41 (8)	52.65 ± 1.73	94.16	32 (5)	43.51 ± 1.89 **	77.81	39 (7)	35.23 ± 1.79 **	63.01	41 (7)
PND25	60.16 ± 1.45 **	41 (8)	56.06 ± 2.20	93.17	32 (5)	46.87 ± 2.44 **	77.91	39 (7)	36.91 ± 2.11 **	61.35	41 (7)
PND26	64.74 ± 0.93 **	41 (8)	60.85 ± 2.30	93.99	32 (5)	50.71 ± 2.42 **	78.33	38 (7)	38.37 ± 2.25 **	59.27	41 (7)
PND27	69.14 ± 1.36 **	41 (8)	65.74 ± 2.33	95.09	32 (5)	55.27 ± 2.80 **	79.95	38 (7)	40.51 ± 2.41 **	58.59	39 (7)
PND28	71.60 ± 1.96 **	41 (8)	66.02 ± 3.12	92.21	32 (5)	56.19 ± 2.60 **	78.48	38 (7)	42.22 ± 2.55 **	58.97	39 (7)

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F1 Females

Phase	Treatment Groups (mg/kg/day)		
	150		
	WT (g)	% of CNTL	N
PND1	6.58 ± 0.09 **	90.04	44 (7)
PND4	8.92 ± 0.31	89.46	36 (6)
PND7	12.28 ± 0.66	91.21	36 (6)
PND10	16.95 ± 0.89	90.40	36 (6)
PND11	18.35 ± 1.03	90.15	36 (6)
PND12	19.81 ± 1.09	88.25	36 (6)
PND13	21.00 ± 1.16	86.03	36 (6)
PND14	22.42 ± 1.37	85.73	33 (6)
PND15	23.68 ± 1.41 *	85.05	33 (6)
PND16	24.28 ± 1.59 *	82.89	33 (6)
PND17	24.10 ± 1.72 **	76.93	31 (6)
PND18	26.30 ± 0.92 **	78.72	24 (5)
PND19	NR		
PND20	NR		
PND21	NR		
PND22	NR		
PND23	NR		
PND24	NR		
PND25	NR		
PND26	NR		
PND27	NR		
PND28	NR		

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Lab: RTI

F1 Pups

Treatment Groups (mg/kg/day)

Phase	0			37.5			75			100		
	WT (g)	N		WT (g)	% of CNTL	N	WT (g)	% of CNTL	N	WT (g)	% of CNTL	N
PND1	7.45 ± 0.20 *	104 (8)		6.60 ± 0.25 **	88.57	68 (6)	6.80 ± 0.11 *	91.24	87 (7)	6.91 ± 0.11	92.70	86 (7)
PND4	10.17 ± 0.39 *	99 (8)		9.54 ± 0.31	93.79	63 (5)	9.26 ± 0.39	91.02	83 (7)	9.09 ± 0.39	89.42	86 (7)
PND7	13.82 ± 0.53	98 (8)		13.29 ± 0.44	96.20	62 (5)	13.01 ± 0.37	94.18	83 (7)	12.64 ± 0.49	91.47	85 (7)
PND10	18.98 ± 0.68	97 (8)		17.81 ± 0.74	93.87	62 (5)	18.07 ± 0.41	95.24	83 (7)	17.11 ± 0.66	90.19	84 (7)
PND11	20.77 ± 0.72	97 (8)		19.93 ± 0.66	95.97	62 (5)	19.98 ± 0.44	96.23	83 (7)	18.99 ± 0.77	91.47	84 (7)
PND12	22.65 ± 0.81 *	97 (8)		21.70 ± 0.60	95.84	62 (5)	21.68 ± 0.48	95.74	83 (7)	20.66 ± 0.79	91.22	84 (7)
PND13	24.54 ± 0.90 **	97 (8)		23.51 ± 0.62	95.77	62 (5)	23.47 ± 0.57	95.62	83 (7)	21.98 ± 0.81	89.56	84 (7)
PND14	26.48 ± 0.91 **	96 (8)		25.18 ± 0.59	95.10	62 (5)	25.16 ± 0.57	95.02	83 (7)	23.58 ± 0.79	89.06	84 (7)
PND15	28.12 ± 0.92 **	96 (8)		26.78 ± 0.60	95.25	62 (5)	26.57 ± 0.67	94.51	83 (7)	24.79 ± 0.94 *	88.16	84 (7)
PND16	29.97 ± 1.04 **	96 (8)		28.05 ± 0.65	93.58	62 (5)	27.81 ± 0.67	92.80	83 (7)	25.86 ± 1.01 *	86.27	84 (7)
PND17	31.83 ± 1.23 **	96 (8)		29.43 ± 0.59	92.47	62 (5)	28.87 ± 0.71	90.72	83 (7)	27.01 ± 1.11 *	84.87	84 (7)
PND18	34.00 ± 1.29 **	96 (8)		31.31 ± 0.93	92.10	62 (5)	30.11 ± 0.79	88.56	83 (7)	27.73 ± 1.66 **	81.54	84 (7)
PND19	37.25 ± 1.47 **	96 (8)		33.92 ± 1.51	91.06	62 (5)	31.10 ± 0.84 *	83.49	83 (7)	28.52 ± 1.92 **	76.56	84 (7)
PND20	41.19 ± 1.52 **	96 (8)		37.75 ± 1.77	91.67	62 (5)	32.61 ± 0.84 **	79.18	83 (7)	29.29 ± 2.20 **	71.12	84 (7)
PND21	45.09 ± 1.52 **	96 (8)		41.77 ± 1.59	92.63	62 (5)	35.04 ± 0.92 **	77.70	83 (7)	30.46 ± 2.32 **	67.56	84 (7)
PND22	48.62 ± 1.44 **	95 (8)		45.70 ± 1.73	93.99	62 (5)	37.65 ± 1.12 **	77.45	83 (7)	32.04 ± 2.14 **	65.90	82 (7)
PND23	53.08 ± 1.49 **	95 (8)		49.83 ± 1.80	93.86	62 (5)	40.40 ± 1.36 **	76.10	83 (7)	34.11 ± 2.05 **	64.25	80 (7)
PND24	57.45 ± 1.40 **	95 (8)		54.18 ± 1.74	94.32	62 (5)	45.21 ± 1.68 **	78.70	83 (7)	35.74 ± 2.47 **	62.21	79 (7)
PND25	62.70 ± 1.56 **	95 (8)		58.06 ± 2.03	92.61	62 (5)	49.17 ± 2.15 **	78.41	83 (7)	37.47 ± 2.77 **	59.77	78 (7)
PND26	67.35 ± 1.18 **	95 (8)		62.92 ± 2.29	93.43	62 (5)	53.10 ± 2.22 **	78.85	82 (7)	39.16 ± 2.81 **	58.15	78 (7)
PND27	72.10 ± 1.51 **	95 (8)		68.09 ± 2.34	94.44	62 (5)	58.11 ± 2.63 **	80.60	82 (7)	41.11 ± 3.00 **	57.02	75 (7)
PND28	74.98 ± 2.20 **	95 (8)		68.29 ± 3.35	91.08	62 (5)	59.19 ± 2.28 **	78.93	82 (7)	42.97 ± 2.91 **	57.30	73 (7)

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F1 Pups

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Phase	Treatment Groups (mg/kg/day)		
	150		
	WT (g)	% of CNTL	N
PND1	6.76 ± 0.11 *	90.75	85 (7)
PND4	9.28 ± 0.29	91.28	70 (6)
PND7	12.87 ± 0.57	93.16	69 (6)
PND10	17.43 ± 0.84	91.87	69 (6)
PND11	18.96 ± 1.07	91.31	69 (6)
PND12	20.39 ± 1.18	90.05	69 (6)
PND13	21.55 ± 1.26	87.82	69 (6)
PND14	23.18 ± 1.42	87.53	64 (6)
PND15	24.69 ± 1.45	87.80	63 (6)
PND16	25.33 ± 1.72 *	84.51	62 (6)
PND17	25.18 ± 1.91 **	79.12	60 (6)
PND18	27.16 ± 0.76 **	79.88	46 (5)
PND19	NR		
PND20	NR		
PND21	NR		
PND22	NR		
PND23	NR		
PND24	NR		
PND25	NR		
PND26	NR		
PND27	NR		
PND28	NR		

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LEGEND

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N = the number of pups (number of litters)

Data are displayed as the means and standard errors of the litter means.

PND - Postnatal Day, pups pre-weaning

Pup weights are adjusted for covariate litter size using total live on PND 1.

Statistical analysis was performed using mixed effects models with litter as a random effect, and a Dunnett-Hsu adjustment for multiple pairwise comparisons.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

NR not recorded

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