

Experiment Number: A95392
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: 5-Azacytidine
CAS Number: 320-67-2

Date Report Requested: 09/21/2018
Time Report Requested: 12:30:02

NTP Study Number: A95392
Study Duration: 72 Hours
Study Methodology: Slide Scoring
Male Study Result: Positive

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Tissue: Blood; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	2.30 ± 0.58		4.20 ± 0.32
75.0	5	3.70 ± 1.30	0.1310	2.30 ± 0.22
150.0	5	2.40 ± 0.73	0.4639	2.00 ± 0.34
300.0	3	1.33 ± 0.60	0.7979	3.20 ± 0.46
Trend p-Value		0.8440		
Positive Control ²	5	9.90 ± 1.18	< 0.001 *	3.38 ± 0.62

Trial Summary: Positive

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		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control ¹	5	1.50 ± 0.27		1.24 ± 0.41	
75.0	4	4.00 ± 1.55	0.0291	0.25 ± 0.06	
150.0	3	4.83 ± 1.74	0.0104	0.63 ± 0.38	
300.0	4	6.26 ± 1.97	< 0.001 *	0.43 ± 0.11	
Trend p-Value		0.0020 *			
Positive Control ²	5	6.80 ± 1.68	< 0.001 *	1.54 ± 0.17	

Trial Summary: Positive

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	1.50 ± 0.45		2.32 ± 0.17
Trend p-Value		< 0.001 *		
Positive Control ²	5	2.80 ± 0.96	0.0236 *	1.64 ± 0.23

Trial Summary: Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	1.70 ± 0.46		49.10 ± 2.08
75.0	5	9.00 ± 2.33	< 0.001 *	12.10 ± 0.97
150.0	5	8.20 ± 0.85	< 0.001 *	13.90 ± 1.59
300.0	3	9.17 ± 0.93	< 0.001 *	17.67 ± 6.95
Trend p-Value		< 0.001 *		
Positive Control ²	5	2.70 ± 0.49	0.0656	48.50 ± 2.81

Trial Summary: Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

		MN PCE/1000		% PCE
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	0.70 ± 0.34		50.30 ± 7.82
75.0	5	1.90 ± 0.53	0.1034	26.20 ± 7.26
150.0	5	4.50 ± 2.54	0.0025 *	11.50 ± 1.42
300.0	4	2.38 ± 0.55	0.0575	20.50 ± 5.39
Trend p-Value		0.0660		
Positive Control ²	5	1.40 ± 0.60	0.0632	64.00 ± 6.94

Trial Summary: Positive

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LEGEND

MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean \pm Standard Error Mean

Results were tabulated as the mean of the pooled results from all animals within a treatment group, plus or minus the standard error of the mean

Pairwise comparison to the concurrent control, dosed groups significant at $p = 0.025/\text{number of treatment groups}$; positive control value is significant at $p = 0.05$

Cochran-Armitage trend test, significant at $p = 0.025$

* Statistically significant pairwise or trend test

1: Vehicle Control: Corn Oil

2: 25.0 mg/kg Cyclophosphamide

**** END OF REPORT ****