

Experiment Number: 679589

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Pentamidine isethionate

CAS Number: 140-64-7

Date Report Requested: 09/19/2018

Time Report Requested: 19:10:25

NTP Study Number:

679589

Study Duration:

72 Hours

Study Methodology:

Slide Scoring

Male Study Result:

Negative

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	1.50 ± 0.45		60.60 ± 3.01
163.0	5	3.00 ± 0.45	0.0126	54.80 ± 3.09
325.0	4	2.38 ± 0.83	0.0896	54.00 ± 4.67
650.0	3	1.83 ± 0.73	0.3062	43.17 ± 6.17
Trend p-Value		0.4420		
Positive Control ²	4	2.25 ± 0.14	0.1212	60.63 ± 3.81

Trial Summary: Negative

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		MN PCE/1000		% PCE
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	2.00 ± 0.16		58.30 ± 2.19
125.0	5	1.70 ± 0.25	0.6892	53.70 ± 1.83
250.0	5	2.60 ± 0.58	0.1879	55.00 ± 1.65
500.0	5	2.00 ± 0.63	0.5000	52.70 ± 1.49
Trend p-Value		0.3900		
Positive Control ³	4	4.13 ± 0.66	0.0045 *	57.13 ± 2.10

Trial Summary: Negative

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	2.50 ± 0.69		56.70 ± 2.94
125.0	5	2.20 ± 0.30	0.6693	59.40 ± 2.02
250.0	5	1.80 ± 0.34	0.8574	58.10 ± 1.95
500.0	5	2.60 ± 0.89	0.4442	52.20 ± 1.96
Trend p-Value		0.4230		
Positive Control ³	5	3.90 ± 1.11	0.0398 *	57.00 ± 2.76

Trial Summary: Negative

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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: Phosphate Buffered Saline

2: 0.2 mg/kg Mitomycin-C

3: 0.6 mg/kg Mitomycin-C

**** END OF REPORT ****