

Experiment Number: 414883

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: 6-Thioguanine (6-TG)

CAS Number: 154-42-7

Date Report Requested: 09/19/2018

Time Report Requested: 16:17:40

NTP Study Number:

414883

Study Duration:

72 Hours

Study Methodology:

Slide Scoring

Male Study Result:

Positive

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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	2.00 ± 0.27		60.50 ± 3.88
0.37	5	4.60 ± 1.07	0.0582	57.80 ± 2.65
0.75	5	9.40 ± 3.33	< 0.001 *	52.90 ± 2.96
1.5	5	25.40 ± 2.18	< 0.001 *	47.60 ± 3.80
Trend p-Value		< 0.001 *		
Positive Control ²	5	3.70 ± 0.85	0.0121 *	56.20 ± 2.99

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	2.10 ± 0.46		60.10 ± 1.83
0.37	5	3.40 ± 0.62	0.0396	46.50 ± 5.77
0.75	5	8.10 ± 1.07	< 0.001 *	52.60 ± 3.50
1.5	5	16.90 ± 1.21	< 0.001 *	54.50 ± 2.65
Trend p-Value		< 0.001 *		
Positive Control ³	5	12.10 ± 2.02	< 0.001 *	46.60 ± 2.23

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: Carboxymethylcellulose

2: 20.0 mg/kg Dimethylbenzanthracene

3: 23.0 mg/kg Dimethylbenzanthracene

**** END OF REPORT ****