

Experiment Number: G12103D

Test Type: Genetic Toxicology - In Vivo Alkaline Comet Assay

Route: Oral Gavage

Species/Strain: Mouse/B6C3F1

G01: In Vivo Alkaline Comet Summary Data

Test Compound: Vinpocetine

CAS Number: 42971-09-5

Date Report Requested: 10/23/2018

Time Report Requested: 10:16:21

NTP Study Number:

G12103D

Study Duration:

3 day

Female Study Result:

Equivocal

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Sex: Female; Number of Treatments: 3; Time interval between final treatment and cell sampling: 3 h

| Dose (mg/kg/day) | Blood | | | Liver | | |
|-------------------------------|-------|------------------|----------|-------|------------------|----------|
| | N | Percent Tail DNA | p-Value | N | Percent Tail DNA | p-Value |
| Vehicle Control ¹ | 5 | 0.483 ± 0.072 | | 5 | 1.789 ± 0.343 | |
| 350 | 5 | 0.455 ± 0.066 | 0.7083 | 5 | 2.000 ± 0.425 | 0.3884 |
| 500 | 5 | 0.380 ± 0.058 | 0.7915 | 5 | 2.206 ± 0.523 | 0.3447 |
| 750 | 5 | 0.454 ± 0.042 | 0.8247 | 5 | 2.801 ± 0.576 | 0.1173 |
| 900 | 5 | 0.417 ± 0.043 | 0.8406 | 5 | 3.187 ± 0.675 | 0.0464 |
| Trend p-Value | | 0.7699 | | | 0.0169 * | |
| Positive Control ² | 5 | 13.750 ± 1.384 | 0.0045 * | 5 | 30.975 ± 2.498 | 0.0045 * |

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Stomach

| Dose (mg/kg/day) | N | Percent Tail DNA | p-Value |
|-------------------------------|----------|-------------------------|----------------|
| Vehicle Control ¹ | 5 | 25.481 ± 8.759 | |
| 350 | 5 | 24.689 ± 10.052 | 0.5551 |
| 500 | 5 | 27.503 ± 9.269 | 0.6424 |
| 750 | 5 | 17.603 ± 6.413 | 0.6770 |
| 900 | 5 | 28.549 ± 6.367 | 0.5189 |
| Trend p-Value | | 0.5439 | |
| Positive Control ² | 5 | 59.627 ± 6.175 | 0.0064 * |

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LEGEND

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean \pm Standard Error Mean

Pairwise comparison with the control group; values are significant at $P \leq 0.025$ by Williams or Dunn's test

Dose-related trend; significant at $P \leq 0.025$ by linear regression or Jonckheere's test

* Statistically significant pairwise or trend test

1: Vehicle Control: 0.5% Methylcellulose

2: 200 mg/kg/day Ethyl Methanesulfonate

**** END OF REPORT ****