

Experiment Number: **G12103E**

Test Type: **Genetic Toxicology - In Vitro
Micronucleus**

G03: In Vitro Micronucleus Summary Data

Test Compound: **Vinpocetine**

CAS Number: **42971-09-5**

Date Report Requested: **08/20/2018**

Time Report Requested: **13:24:31**

NTP Study Number:

G12103E

Cell Type:

TK6

Study Result:

Positive

Experiment Number: G12103E
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G03: In Vitro Micronucleus Summary Data

Test Compound: Vinpocetine
CAS Number: 42971-09-5

Date Report Requested: 08/20/2018
Time Report Requested: 13:24:31

Duration: 24 h; Activation: Without S9

Dose (ug/mL)	% Relative Survival	% Apoptosis	% RICC	% MN	
	Mean	Mean	Mean	Mean ± SEM	p-Value
Vehicle Control ¹		1.04		0.372 ± 0.057	
1.0	104.3	1.12	108.8	0.477 ± 0.055	0.3179
2.5	111.6	0.97	94.2	0.433 ± 0.025	0.3748
5.0	109.7	1.09	79.2	0.382 ± 0.051	0.4022
10.0	102.1	1.13	101.6	0.378 ± 0.085	0.4160
20	94.1	1.87	77.9	0.442 ± 0.045	0.4248
40	81.1	2.31	71.4	0.367 ± 0.042	0.4299
80	63.1	6.73	42.4	0.657 ± 0.090	0.0023 *
Trend p-Value				0.0035 *	
VIN ²	54.9	3.72	50.1	7.448 ± 0.858	0.0248 *

Trial Summary: Negative

Experiment Number: G12103E

G03: In Vitro Micronucleus Summary Data

Date Report Requested: 08/20/2018

Test Type: Genetic Toxicology - In Vitro
Micronucleus

Test Compound: Vinpocetine

Time Report Requested: 13:24:31

CAS Number: 42971-09-5

Duration: 4 h; Activation: With 1% Rat S9

Dose (ug/mL)	% Relative Survival	% Apoptosis	% RICC	% MN	
	Mean	Mean	Mean	Mean ± SEM	p-Value
Vehicle Control ¹		1.92		0.728 ± 0.093	
0.5	106.3	1.59	130.9	0.680 ± 0.140	0.5571
1.0	123.4	1.7	136.5	0.923 ± 0.152	0.3877
2.5	112.4	1.55	144.6	0.717 ± 0.126	0.4166
5.0	90.8	2.04	101.5	0.797 ± 0.084	0.4301
10	98.1	2.16	105.1	0.778 ± 0.103	0.4389
20	70.9	5.28	65.9	1.578 ± 0.147	< 0.001 *
32	57.4	8.88	44.5	1.802 ± 0.053	< 0.001 *
Trend p-Value				< 0.001 *	
CPA ³	62.0	5.11	62.9	3.377 ± 0.250	< 0.001 *

Trial Summary: Positive

Experiment Number: G12103E

Test Type: Genetic Toxicology - In Vitro
Micronucleus

G03: In Vitro Micronucleus Summary Data

Test Compound: Vinpocetine

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LEGEND

MN = Micronucleated, RICC = Relative increase in cell count, CAS = Chemical abstract registry

For the 4 h chemical exposures with and without S9, the medium with test article (and S9, if present) is changed after 4 h and replaced with fresh medium without test article or S9, and cells are cultured for an additional 20 h to achieve a total culture time of 24 h

Values given as Mean or Mean \pm Standard Error Mean

Statistical analysis only performed on: % MN

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

The number of samples = 3, unless otherwise indicated

1: Vehicle Control: DMSO

2: Positive Control: 0.75 ng/mL Vinblastine

3: Positive Control: 3.0 ug/mL Cyclophosphamide monohydrate

**** END OF REPORT ****