

Experiment Number: F46736B

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: Emtricitabine

CAS Number: 143491-57-0

Date Report Requested: 10/25/2018

Time Report Requested: 15:41:21

NTP Study Number: F46736B

Study Duration: 4 day

Male Study Result: Negative

Female Study Result: Positive

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Sex: Male; Number of Treatments: 4; Time interval between final treatment and cell sampling: 4 h

Dose (mg/kg/day)	N	Blood		N	Liver	
		Percent Tail DNA	p-Value		Percent Tail DNA	p-Value
Vehicle Control ¹	5	7.409 ± 0.460		5	17.618 ± 1.504	
1000	5	7.156 ± 0.906	0.5465	5	17.082 ± 1.156	0.5630
1500	5	9.216 ± 0.886	0.3910	5	19.127 ± 1.233	0.2380
2000	5	6.631 ± 0.825	0.4172	5	19.458 ± 0.872	0.1932
Trend p-Value		0.5277			0.0827	
Positive Control ²	5	10.286 ± 0.677	0.0041 *	5	22.781 ± 1.387	0.0180 *

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Stomach

Dose (mg/kg/day)	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	41.862 ± 3.780	
1000	5	47.963 ± 5.213	0.2951
1500	5	46.302 ± 3.680	0.3543
2000	5	44.677 ± 8.639	0.3771
Trend p-Value		0.3922	
Positive Control ²	5	45.051 ± 2.772	0.2586

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Sex: Female; Number of Treatments: 4; Time interval between final treatment and cell sampling: 4 h

Dose (mg/kg/day)	Blood			Liver		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	6.855 ± 0.545		5	16.959 ± 0.997	
1500	4	9.416 ± 2.348	0.2312	4	21.394 ± 0.984	0.0084 *
Trend p-Value		0.2312			0.0085 *	
Positive Control ²	5	9.002 ± 0.566	0.0131 *	5	23.375 ± 2.359	0.0141 *

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Sex: Female; Number of Treatments: 4; Time interval between final treatment and cell sampling: 4 h

Stomach			
Dose (mg/kg/day)	N	Percent Tail DNA	p-Value
Vehicle Control ¹	5	40.937 ± 3.454	
1500	4	33.048 ± 8.833	0.6521
Trend p-Value		0.8029	
Positive Control ²	5	42.282 ± 6.420	0.4584

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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: Corn Oil

2: 25 mg/kg/day Cyclophosphamide

**** END OF REPORT ****