G04: In Vivo Micronucleus Assay Summary Data (Study Method: Flow Cytometry)

Study Number: C13115-01
DTTID: 104-015-009-000-0
Study Type: Toxicology-14-day
Species/Strain: Rat/Harlan Sprague Dawley

Test Compound: 3-(2H benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester
CAS Number: 84268-23-5
DTXSID: DTXSID001016713

Date: 06 Sep 2023
Time: 11:09:57 AM

Evaluation of micronuclei in peripheral blood from Sprague-Dawley Rats for 14 days via oral gavage

3-(2H benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, octyl ester; Male

	MN-RET/1000	MN-ME/1000	%RET	Summary
Vehicle Control (0.5% aqueous methylcellulose)				
0 mg/kg/day	0.600 ± 0.11[5]	0.090 ± 0.01[5]	0.793 ± 0.11[5]	
Test article				
30 mg/kg/day	0.597 ± 0.10[5], p=1.000	0.131 ± 0.02[5], p=0.288	0.918 ± 0.07[5], p=1.000	
100 mg/kg/day	0.830 ± 0.09[5], p=0.160	0.130 ± 0.02[5], p=0.244	1.182 ± 0.12[5], p=0.192	
300 mg/kg/day	0.660 ± 0.07[5], p=1.000	0.103 ± 0.02[5], p=1.000	0.841 ± 0.12[5], p=1.000	
1000 mg/kg/day	0.948 ± 0.07[5], p=0.019 *	0.297 ± 0.04[5], p=0.001 *	1.464 ± 0.39[5], p=0.488	
Trend Significance				
p-value	0.004*	0.003*	0.232	
Male Rat Study				
Result				Equivocal

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LEGEND

CAS Number = Chemical Abstract Service registry number
MN = micronucleated; RET = reticulocyte; ME = mature erythrocyte
Values given as Mean ± Standard Error of the Mean (SEM) [Number of Test Subjects], p-value
MN-RET/1000 and MN-ME/1000: Pairwise comparison of treated groups vs the vehicle control group; values are significant at $p \leq 0.025$ by one-sided Dunn's test; dose-related trend, significant at $p \leq 0.025$ by one-sided Jonckheere's test
%RET: Pairwise comparison of treated groups vs the vehicle control group; values are significant at $p \leq 0.025$ by two-sided Dunn's test; dose-related trend, significant at $p \leq 0.025$ by two-sided Jonckheere's test
*Statistically significant pairwise or trend test

** END OF REPORT **