

Study Number: C12007-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Sex:

PWG Approval Date:

Version:

Stat Version:

PA48: Summary of Tissue Concentration

Test Compound: 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol

CAS Number: 70321-86-7

C12007-01

Male

See web page for date of PWG Approval

v1.5.3

2023.02.27S

Date Report Requested: 10/10/2023

Time Report Requested: 16:06:16

Lab: Battelle

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		Male			
Phase	Dose (mg/kg)	0	30	100	300
SD 14	Plasma Free 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (ng/ml)	BD	33.9 ± 5.88 (4)	252 ± 105 (5)	424 ± 112 (5)
SD 14	Plasma Free 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (nM)	BD	75.8 ± 13.1 (4)	564 ± 235 (5)	948 ± 250 (5)
SD 14	Plasma Total 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (ng/ml)	BD	25.8 ± 4.38 (4)	342 ± 156 (5)	498 ± 146 (5)
SD 14	Plasma Total 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (nM)	BD	57.6 ± 9.79 (4)	764 ± 348 (5)	1110 ± 326 (5)

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Male		
Phase	Dose (mg/kg)	1000
SD 14	Plasma Free 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (ng/ml)	1650 ± 274 (5)
SD 14	Plasma Free 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (nM)	3690 ± 612 (5)
SD 14	Plasma Total 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (ng/ml)	1660 ± 218 (5)
SD 14	Plasma Total 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol Concentration (nM)	3700 ± 488 (5)

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LEGEND

Data are displayed as mean $\pm$ SEM (N) unless otherwise noted.

SD – Study Day

If over 20% of the animals in a group were above the limit of detection, then 1/2 the limit of detection value was substituted for values that were below the limit of detection.

BD - Group did not have over 20% of its values above the limit of detection.

When the control group did not have over 20% of its values above the limit of detection, no mean or standard error were calculated and no statistical analysis was done for the endpoint.

Statistical analysis was performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

Values adjusted for molar concentration were calculated by dividing the absolute measurement by the molecular weight of 447.57 g/mol

Decrease in N for Plasma Free 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol and Plasma Total 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol in the 30 mg/kg group is due to one animal's value being excluded because it was an outlier.

**** END OF REPORT ****