

Study Number: C20613

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

C Number:

Study Gender:

PWG Approval Date

PA48: Summary of Tissue Concentration

Test Compound: Perfluorohexanoic acid

CAS Number: 307-24-4

C20613

Both

See web page for date of PWG Approval

Date Report Requested: 01/17/2019

Time Report Requested: 14:33:49

Lab: Battelle

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		Male			
Dose (mg/kg/day)	0	62.6	125	250	
(mmol/kg/day)	0	0.199	0.398	0.796	
Plasma Concentration (ng/ml)	BD	378 ± 178 (10)	503 ± 66 (10)	1297 ± 265 (10)	
Plasma Concentration (uM)	BD	1.2 ± 0.6 (10)	1.6 ± 0.2 (10)	4.1 ± 0.8 (10)	
Normalized Plasma Concentration (uM/mmol/kg)		6.0 ± 2.8 (10)	4.0 ± 0.5 (10)	5.2 ± 1.1 (10)	
Liver Concentration (ng/g)	BD	BD	BD	655 ± 148 (10)	
Liver Concentration (uM)	BD	BD	BD	2.1 ± 0.5 (10)	
Normalized Liver Concentration (uM/mmol/kg)				2.6 ± 0.6 (10)	
Liver/Plasma Ratio	BD	BD	BD	0.52 ± 0.06 (10)	

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Dose (mg/kg/day) (mmol/kg/day)	Male	
	500 1.592	1000 3.184
Plasma Concentration (ng/ml)	3339 ± 497 (10)	10899 ± 2516 (10)
Plasma Concentration (uM)	10.6 ± 1.6 (10)	34.7 ± 8.0 (10)
Normalized Plasma Concentration (uM/mmol/kg)	6.7 ± 1.0 (10)	10.9 ± 2.5 (10)
Liver Concentration (ng/g)	1552 ± 222 (10)	4845 ± 1056 (10)
Liver Concentration (uM)	4.9 ± 0.7 (10)	15.4 ± 3.4 (10)
Normalized Liver Concentration (uM/mmol/kg)	3.1 ± 0.4 (10)	4.8 ± 1.1 (10)
Liver/Plasma Ratio	0.47 ± 0.01 (10)	0.44 ± 0.02 (10)

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		Female			
Dose (mg/kg/day)	0	62.6	125	250	
(mmol/kg/day)	0	0.199	0.398	0.796	
Plasma Concentration (ng/ml)	BD	129 ± 16 (10)	292 ± 58 (10)	475 ± 77 (10)	
Plasma Concentration (uM)	BD	0.4 ± 0.1 (10)	0.9 ± 0.2 (10)	1.5 ± 0.2 (10)	
Normalized Plasma Concentration (uM/mmol/kg)		2.1 ± 0.3 (10)	2.3 ± 0.5 (10)	1.9 ± 0.3 (10)	

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	Female	
Dose (mg/kg/day)	500	1000
(mmol/kg/day)	1.592	3.184
Plasma Concentration (ng/ml)	1668 ± 373 (10)	6712 ± 841 (10)
Plasma Concentration (uM)	5.3 ± 1.2 (10)	21.4 ± 2.7 (10)
Normalized Plasma Concentration (uM/mmol/kg)	3.3 ± 0.7 (10)	6.7 ± 0.8 (10)

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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 are above the limit of detection, then 1/2 the limit of detection value is substituted for values that are below 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; no statistical analysis was done for the endpoint.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests (unless otherwise noted).

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 314.06 g/mol

Normalized values were calculated by dividing the absolute measurement by the dose.

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

**** END OF REPORT ****