

Experiment Number: C20614B-02
Test Type: TOX
Route: Dosing in Feed
Species/Strain: Rat/Sprague Dawley

PA45: Liver Special Studies Summary
Test Compound: Perfluorooctanoic Acid
CAS Number: 335-67-1

Date Report Requested: 08/28/2018
Time Report Requested: 15:12:16
Lab: NTP

C Number:

C20614B-02

Study Gender:

Both

PWG Approval Date

See web page for date of PWG Approval

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F1 Male: Non-Perinatal

Terminal Sacrifice	Treatment Groups (ppm)			
	0/0	0/20	0/40	0/80
SD 108 - 108 Acyl-CoA Oxidase (nmol/min/mg)	2.636 ± 0.107 (10) **	11.436 ± 0.660 (10) **	19.360 ± 1.170 (10) **	25.010 ± 1.973 (10) **
SD 108 - 108 Aromatase (pmol/mg/min)	7.658 ± 0.718 (10) **	15.910 ± 0.842 (10) **	14.539 ± 1.075 (10) **	16.630 ± 0.766 (10) **
SD 108 - 108 Acyl-CoA Protein (mg/ml)	23.26 ± 0.83 (10) **	25.06 ± 0.81 (10)	26.76 ± 1.13 (10) *	26.61 ± 1.08 (10) *
SD 108 - 108 Aromatase Protein (mg/ml)	13.63 ± 0.72 (10)	15.29 ± 1.18 (10)	14.52 ± 0.93 (10)	13.54 ± 0.37 (10)

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F1 Male: Perinatal

Terminal Sacrifice	Treatment Groups (ppm)			
	300/0	300/20	300/40	300/80
SD 108 - 108 Acyl-CoA Oxidase (nmol/min/mg)	2.754 ± 0.073 (10) **	13.779 ± 1.484 (10) ** ††	18.420 ± 1.061 (10) ** ††	25.320 ± 2.438 (10) ** ††
SD 108 - 108 Aromatase (pmol/mg/min)	8.837 ± 0.782 (10) **	15.951 ± 1.059 (10) ** ††	17.560 ± 1.477 (10) ** ††	16.640 ± 1.083 (10) ** ††
SD 108 - 108 Acyl-CoA Protein (mg/ml)	21.04 ± 0.92 (10) **	24.02 ± 0.80 (10) *	26.83 ± 1.04 (10) ** †	24.78 ± 1.38 (10) **
SD 108 - 108 Aromatase Protein (mg/ml)	13.33 ± 1.04 (10)	15.57 ± 1.29 (10)	13.66 ± 0.60 (10)	14.03 ± 0.75 (10)

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LEGEND

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

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning

Statistical significance for a treatment group indicates a significant pairwise test compared to the specified control group. Statistical significance for the control group indicates a significant trend test.

* Statistically significant at $P \leq 0.05$ for trend or pairwise comparison of (0/0 to 0/20, 0/40, and 0/80) or (300/0 to 300/20, 300/40, and 300/80), using Jonckheere's (trend) test and Shirley's/Dunn's (pairwise) tests.

** Statistically significant at $P \leq 0.01$ for trend or pairwise comparison of (0/0 to 0/20, 0/40, and 0/80) or (300/0 to 300/20, 300/40, and 300/80), using Jonckheere's (trend) test and Shirley's/Dunn's (pairwise) tests.

Statistically significant at $P \leq 0.05$ for pairwise comparisons of 0/0 to 300/0, 0/20 to 300/20, 0/40 to 300/40, and 0/80 to 300/80 using a Wilcoxon rank-sum test with a Hommel p-value adjustment.

Statistically significant at $P \leq 0.01$ for pairwise comparisons of 0/0 to 300/0, 0/20 to 300/20, 0/40 to 300/40, and 0/80 to 300/80 using a Wilcoxon rank-sum test with a Hommel p-value adjustment.

† Statistically significant at $P \leq 0.05$ for pairwise comparisons of 0/0 to 300/20, 0/0 to 300/40, and 0/0 to 300/80 using a Wilcoxon rank-sum test with a Hommel p-value adjustment.

†† Statistically significant at $P \leq 0.01$ for pairwise comparisons of 0/0 to 300/20, 0/0 to 300/40, and 0/0 to 300/80 using a Wilcoxon rank-sum test with a Hommel p-value adjustment.

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