

RT-PCR Fold Change in Male HSD Rats

C12006-01 2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)phenol

Parameter ^a	Control	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg	Trend ^b
Kidney						
Havcr1	1.09 ± 0.30 (3)	3.21 ± 1.79 (3)	3.00 ± 1.20 (5)	4.47 ± 1.66 (5)	1.87 ± 0.87 (5)	0.901+
Liver						
Acot1	1.15 ± 0.26 (5)	15615 ± 1124 (5)**	28663 ± 1102 (5)**	20068 ± 2614 (5)**	24016 ± 1353 (5)**	0.002+
Acox1	1.00 ± 0.03 (5)	8.12 ± 0.26 (5)**	11.77 ± 0.55 (5)**	8.55 ± 0.74 (5)**	9.50 ± 0.72 (5)**	0.007+
Ccng1	1.01 ± 0.08 (5)	0.68 ± 0.03 (5)**	0.70 ± 0.03 (5)*	0.76 ± 0.03 (5)	0.75 ± 0.04 (5)	0.181-
Cdkn1a	1.02 ± 0.10 (5)	0.28 ± 0.02 (5)**	0.31 ± 0.07 (5)*	0.34 ± 0.04 (5)	0.36 ± 0.06 (5)	0.214-
Cyp2b1	1.37 ± 0.44 (5)	7.28 ± 1.39 (5)*	5.77 ± 2.79 (5)	9.41 ± 4.69 (5)	8.53 ± 3.00 (5)*	0.022+
Cyp3a23/3a1	1.01 ± 0.07 (5)	0.65 ± 0.06 (5)*	0.70 ± 0.05 (5)	0.69 ± 0.08 (5)	0.66 ± 0.07 (5)*	0.025-
Cyp4a1	1.02 ± 0.10 (5)	46.97 ± 1.69 (5)*	53.39 ± 2.89 (5)**	42.67 ± 2.76 (5)	43.68 ± 1.12 (5)	0.166+
Gstm3	1.06 ± 0.16 (5)	0.13 ± 0.02 (5)**	0.09 ± 0.01 (5)**	0.07 ± 0.01 (5)**	0.07 ± 0.01 (5)**	<0.001-
Nqo1	1.02 ± 0.09 (5)	0.92 ± 0.06 (5)	1.12 ± 0.08 (5)	1.04 ± 0.04 (5)	1.16 ± 0.13 (5)	0.197+

The RT-PCR fold change values were calculated from the base signal values using the 2^(-ΔΔ Ct) method.

Gapdh was used as the reference housekeeping gene.

a: Results shown as mean ± standard error (N)

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

* Statistically significant at P ≤ 0.05

** Statistically significant at P ≤ 0.01

Liver Cyp1b1 gene was excluded from the analysis.