

RT-PCR Fold Change in Male HSD Rats

C12013-01 2-(5-chloro-2H-benzotriazol-2-yl)-4,6-bis(1,1-dimethylethyl)phenol

Parameter ^a	Control	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg	Trend ^b
Kidney						
Havcr1	1.44 ± 0.46 (5)	0.15 ± 0.08 (5) *	0.19 ± 0.06 (5)	0.10 ± 0.02 (4) *	0.21 ± 0.06 (5)	0.115-
Liver						
Acot1	1.17 ± 0.49 (3)	15375 ± 1360 (5)	21116 ± 2029 (5) **	19383 ± 1846 (5) *	14569 ± 406.6 (5)	0.255+
Acox1	1.00 ± 0.04 (5)	8.29 ± 0.30 (5) **	8.48 ± 0.88 (5) **	7.57 ± 0.20 (5)	6.44 ± 0.34 (5)	0.848+
Ccng1	1.01 ± 0.09 (5)	0.53 ± 0.04 (5) **	0.60 ± 0.05 (5)	0.63 ± 0.05 (5)	0.51 ± 0.02 (5) **	0.028-
Cdkn1a	1.06 ± 0.16 (5)	0.29 ± 0.04 (5) **	0.31 ± 0.02 (5) **	0.52 ± 0.05 (5)	0.47 ± 0.02 (5)	0.774-
Cyp2b1	1.15 ± 0.30 (5)	10.91 ± 3.75 (5)	31.67 ± 11.80 (5) **	11.35 ± 3.68 (5) *	12.86 ± 6.36 (5)	0.022+
Cyp3a23/3a1	1.40 ± 0.34 (5)	0.88 ± 0.05 (5)	0.96 ± 0.08 (5)	0.85 ± 0.09 (5)	0.68 ± 0.02 (5) **	0.004-
Cyp4a1	1.02 ± 0.10 (5)	45.80 ± 3.19 (5) *	57.08 ± 4.53 (5) **	44.20 ± 3.18 (5) *	36.56 ± 1.22 (5)	0.473+
Gstm3	1.04 ± 0.15 (5)	0.15 ± 0.06 (5) **	0.08 ± 0.00 (5) **	0.09 ± 0.02 (5) **	0.05 ± 0.01 (5) **	<0.001-
Nqo1	1.09 ± 0.24 (5)	0.52 ± 0.06 (5) *	0.66 ± 0.14 (5) *	0.43 ± 0.05 (5) **	0.40 ± 0.05 (5) **	<0.001-

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.