

RT-PCR Fold Change in Male HSD Rats

C12007-01 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol

Parameter ^a	Control	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg	Trend ^b
Kidney						
Havcr1	1.17 ± 0.32 (5)	1.64 ± 0.81 (5)	1.17 ± 0.49 (5)	0.54 ± 0.15 (5)	0.65 ± 0.21 (5)	0.045-
Liver						
Acot1	1.02 ± 0.11 (5)	0.66 ± 0.17 (5)	1.00 ± 0.17 (4)	1.02 ± 0.25 (5)	0.54 ± 0.17 (5)	0.286-
Acox1	1.01 ± 0.08 (5)	1.09 ± 0.04 (5)	1.02 ± 0.10 (5)	1.03 ± 0.06 (5)	1.07 ± 0.13 (5)	0.599-
Ccng1	1.02 ± 0.11 (5)	0.86 ± 0.05 (5)	0.96 ± 0.07 (5)	0.89 ± 0.04 (5)	1.14 ± 0.07 (5)	0.151+
Cdkn1a	1.01 ± 0.05 (5)	0.49 ± 0.05 (5) *	0.79 ± 0.17 (5)	0.49 ± 0.09 (5) *	1.09 ± 0.14 (5)	0.886+
Cyp2b1	1.38 ± 0.46 (5)	3.63 ± 0.90 (5)	1.97 ± 0.76 (5)	2.42 ± 0.64 (5)	2.21 ± 0.67 (5)	0.738+
Cyp3a23/3a1	1.02 ± 0.09 (5)	1.07 ± 0.11 (5)	1.05 ± 0.07 (5)	0.95 ± 0.08 (5)	1.00 ± 0.03 (5)	0.566-
Cyp4a1	1.04 ± 0.16 (5)	1.09 ± 0.20 (5)	0.98 ± 0.15 (5)	1.15 ± 0.12 (5)	1.42 ± 0.21 (5)	0.115+
Gstm3	1.12 ± 0.26 (5)	0.70 ± 0.14 (5)	0.81 ± 0.07 (5)	0.75 ± 0.09 (5)	0.88 ± 0.15 (5)	0.738-
Nqo1	1.05 ± 0.14 (5)	0.88 ± 0.10 (5)	1.06 ± 0.08 (5)	0.99 ± 0.11 (5)	1.20 ± 0.16 (5)	0.473+

The RT-PCR fold change values were calculated from the base signal values using the $2^{-\Delta\Delta Ct}$ 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 $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

Liver Cyp1b1 gene was excluded from the analysis.