

RT-PCR Fold Change in Male HSD Rats

C12011-01 Bumetrizole

Parameter ^a	Control	30 mg/kg	100 mg/kg	300 mg/kg	1000 mg/kg	Trend ^b
Kidney						
Havcr1	1.36 ± 0.51 (5)	1.50 ± 0.60 (5)	2.14 ± 1.19 (5)	1.37 ± 0.25 (4)	1.77 ± 0.43 (5)	0.446+
Liver						
Acot1	1.06 ± 0.21 (4)	1.19 ± 0.37 (5)	0.80 ± 0.20 (3)	0.88 ± 0.61 (4)	1.58 ± 0.55 (4)	0.485-
Acox1	1.01 ± 0.07 (5)	0.89 ± 0.03 (5)	0.75 ± 0.06 (4) *	0.91 ± 0.07 (4)	0.89 ± 0.04 (5)	0.185-
Ccng1	1.01 ± 0.07 (5)	1.14 ± 0.06 (5)	0.97 ± 0.06 (4)	1.12 ± 0.05 (4)	1.07 ± 0.03 (5)	0.725+
Cdkn1a	1.02 ± 0.11 (5)	0.66 ± 0.06 (5) *	0.60 ± 0.03 (4) **	0.69 ± 0.05 (4)	0.82 ± 0.02 (5)	0.85-
Cyp2b1	1.28 ± 0.45 (5)	0.53 ± 0.22 (5)	0.38 ± 0.09 (4)	1.36 ± 0.86 (4)	1.77 ± 0.38 (5)	0.344+
Cyp3a23/3a1	1.01 ± 0.08 (5)	0.93 ± 0.04 (5)	0.75 ± 0.06 (4)	0.95 ± 0.14 (4)	0.97 ± 0.06 (5)	0.607-
Cyp4a1	1.04 ± 0.15 (5)	0.88 ± 0.05 (5)	0.80 ± 0.12 (4)	0.93 ± 0.18 (4)	0.82 ± 0.07 (5)	0.291-
Gstm3	1.10 ± 0.20 (5)	1.02 ± 0.09 (5)	0.68 ± 0.18 (4)	0.87 ± 0.05 (4)	0.94 ± 0.17 (5)	0.245-
Nqo1	1.01 ± 0.07 (5)	1.00 ± 0.08 (5)	1.34 ± 0.08 (4) *	1.53 ± 0.26 (4) *	1.71 ± 0.08 (5) **	<0.001+

The RT-PCR fold change values were calculated from the base signal values using the $2(-\Delta\Delta \text{ Ct})$ 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.