

Drug Metabolism and Disposition

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17 β -Estradiol (E2) induces sulfotransferase (SULT) 2A1 expression through estrogen receptor (ER) α

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Supplemental Table 1. Sequences of oligonucleotides used in this study

Cloning primers	
pGL3-SULT2A1 (-826/+140)	(F) CCGGGGTACCCTGCCAATTCCTTTGTGAAAATCCAA (R) ATTGCTCGAGGATGATGACCTCTTCCTGCGTGGTG
pGL3-SULT2A1 (-566/+140)	(F) CCGGGGTACCCTGACTTACTCTTTTTTCTCTAGA (R) ATTGCTCGAGGATGATGACCTCTTCCTGCGTGGTG
pGL3-SULT2A1 (-257/+140)	(F) CCGGGGTACCGATTTTGTGTTTATGCTTGATGA (R) ATTGCTCGAGGATGATGACCTCTTCCTGCGTGGTG
pGL3-SULT2A1 (-89/+140)	(F) CCGGGGTACCGTCTCTAGATAACTTCATGATTGC (R) ATTGCTCGAGGATGATGACCTCTTCCTGCGTGGTG
pGL3-SULT2A1 (+47/+140)	(F) CCGGGGTACCCCTTGCTGTAAAAGCTGATCTG (R) ATTGCTCGAGGATGATGACCTCTTCCTGCGTGGTG
pGL3-SULT2A1 mutation S1	(F) CAGTTCACCTCTCAGGAACGCAACCTCAGATTACCCCTAAAATG (R) CATTTTAGGGGTAATCTGAGGTTGCGTTCCTGAGAGTGAAGTG
pGL3-SULT2A1 mutation S2	(F) TCATGATTGCTCAACATCTTCAATCTTTTGTAGTATCGTCTACATTATACCTCTCTTTATCAGC (R) GCTGATAAAGAGAGGTATAATGTAGACGATACTCAAAGATTGAAGATGTTGAGCAATCATGA
pGL3-SULT2A1 mutation S3	(F) ACACCACGCAGGAAGAGGTATTCATCCTCGAGATCTG (R) CAGATCTCGAGGATGAATACCTCTTCCTGCGTGGTGT
qRT-PCR	
Human GAPDH	(F) CCACATCGCTCAGACACCAT (R) AAATCCGTTGACTCCGACCTT (Taqman) Universal ProbeLibrary Probe #60 (Roche)
ChIP assay	
SULT2A1	(F) TTCACTCTCAGGAACGCAAG (R) GAGGTATAATGTGACCCATACTCAA
TFF1	(F) GACGGAATGGGCTTCATGA (R) AGTGAGAGATGGCCGAAAA
EMSA DNA probes	
S1	CGCAAGCTCAGATGACCCCTAAA
mS1	CGCAAGCGGGGACGCGTCCCTAAA
S2	TGAGTATGGGTCACATTATACCTCT
mS2	TGAGTATCGTCTACATTATACCTCT
S3	GCAGGAAGAGGTCATCATC
mS3	GCAGGAAGAGTCCCACATC

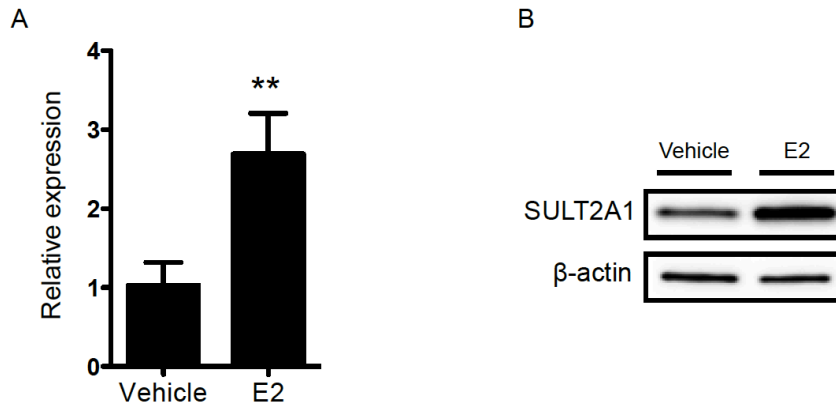


Fig. S1. E2 induce SUTL2A1 expression in HepG2-ER cells. (A) HepG2-ER cells were treated with vehicle (ethanol) or E2 (100 nM) for 24 h. mRNA expression level of SULT2A1 was determined by qRT-PCR. ** $p < 0.01$ vs. vehicle group. (B) HepG2-ER cells were treated with vehicle (ethanol) or E2 (100 nM) for 72 h. Protein expression level of SULT2A1 was determined by western blot.