SULT2B1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	SULT2B1, Recombinant Protein
Full Product Name	Recombinant Human SULT2B1 Protein
Product Gene Name	SULT2B1 recombinant protein
Product Synonym Names	HSST2; Sulfotransferase family cytosolic 2B member 1; ST2B1; Sulfotransferase 2B1; Alcohol sulfotransferase; Hydroxysteroid sulfotransferase 2
Sequence	MDGPAEPQIP GLWDTYEDDI SEISQKLPGE YFRYKGVPFP VGLYSLESIS LAENTQDVRD DDIFIITYPK SGTTWMIEII CLILKEGDPS WIRSVPIWER APWCETIVGA FSLPDQYSPR LMSSHLPIQI FTKAFFSSKA KVIYMGRNPR DVVVSLYHYS KIAGQLKDPG TPDQFLRDFL KGEVQFGSWF DHIKGWLRMK GKDNFLFITY EELQQDLQGS VERICGFLGR PLGKEALGSV VAHSTFSAMK ANTMSNYTLL PPSLLDHRRG AFLRKGVCGD WKNHFTVAQS EAFDRAYRKQ MRGMPTFPWD EVDHHHHHH
Host	E Coli
Species Reactivity	Human
Form/Format	Supplied as a 0.2 muM filtered solution of 20mM Tris, 0.1M NaCl, 1mM EDTA, pH 8.0.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	39,599 Da
OMIM	U92314 mRNA
3D Structure	ModBase 3D Structure for O00204
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for SULT2B1 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for SULT2B1 recombinant protein	Recombinant Human SULT2B1 Protein is produced by our E Coli expression system and the target gene encoding Met1-Glu311 is expressed with a 6His tag at the C-terminus.
Other Notes	Small volumes of SULT2B1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SULT2B1 purchase	MBS8249846 is a recombinant protein targeting SULT2B1. Also known as Recombinant Human SULT2B1 Protein. Reactive in Human. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SULT2B1. It may not necessarily be applicable to this product.

NCBI GI #	31563388

NCBI GeneID	6820
NCBI Accession #	NP_004596.2
UniProt Primary Accession #	O00204
UniProt Secondary Accession #	O00205; O75814
UniProt Related Accession #	O00204
GenBank Nucleotide #	NM_004605.2
NCBI Official Full Name	sulfotransferase family cytosolic 2B member 1 isoform a
NCBI Official Synonym Full Names	sulfotransferase family 2B member 1
NCBI Official Symbol	SULT2B1
NCBI Official Synonym Symbols	HSST2
UniProt Protein Name	Sulfotransferase family cytosolic 2B member 1
UniProt Synonym Protein Names	Alcohol sulfotransferase; Hydroxysteroid sulfotransferase 2
Protein Family	Sulfotransferase family cytosolic
UniProt Gene Name	SULT2B1
UniProt Synonym Gene Names	HSST2; ST2B1; Sulfotransferase 2B1
UniProt Entry Name	ST2B1_HUMAN
NCBI Protein Information	sulfotransferase family cytosolic 2B member 1
NCBI Summary for SULT2B1	Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. This gene sulfates dehydroepiandrosterone but not 4-nitrophenol, a typical substrate for the phenol and estrogen sulfotransferase subfamilies. Two alternatively spliced variants that encode different isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for SULT2B1	SULT2B1: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs and xenobiotic compounds. Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Sulfates hydroxysteroids like DHEA. Isoform 1 preferentially sulfonates cholesterol, and isoform 2 avidly sulfonates pregnenolone but not cholesterol. Belongs to the sulfotransferase 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.8.2.2; Energy Metabolism - sulfur; Lipid Metabolism - androgen and estrogen; Transferase Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: cytoplasm; cytosol; intracellular membrane-bound organelle Molecular Function: alcohol sulfotransferase activity; protein binding; steroid sulfotransferase activity Biological Process: 3'-phosphoadenosine 5'-phosphosulfate metabolic process; steroid metabolic process
Research Articles on SULT2B1	**1.** Since 1'-hydroxyestragole exposure readily produced DNA injury in B-13/H cells, these data suggest that cholangiocarcinomas generated in rats fed estragole may be dependent, in part, on SULT2B1 activation of the 1'-hydroxyestragole metabolite.
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