

Recombinant Human Sulfotransferase Family, Cytosolic, 1B, Member 1, His-tagged

Cat. No. SULT1B1-2399H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SULT1B1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-296 a.a.
Description	Sulfotransferasefamily, cytosolic, 1B, member 1, also known as SULT1B1, is an enzyme that in humans is encoded by the SULT1B1 gene. SULT1B1 contains a binding site for the sulfate donor, 3-prime-phosphoadenosine 5-prime-phosphosulfate, and a cysteine residue conserved in the ST1 gene family of sulfotransferases. Sulfotransferases such as SULT1B1 catalyze the biotransformation of a large number of endogenous compounds such as neurotransmitters, steroids, bile acids, and thyroid hormones, as well as drugs and xenobiotics.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol
Molecular Weight	37.4kDa (320aa), confirmed by MALDI-TOF
Purity	> 95% by SDS -PAGE
Concentration	1 mg/ml (determined by Bradford)

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Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSFMLSPKD ILRKDLKLVH GYPMTCAFAS NWEKIEQFHS RPDDIVIATY PKSGTTWVSEIIDMILNDGD IEKCKRGFIT EKVPMLEMTL PGLRTSGIEQ LEKNPSPRIV KTHLPTDLLP KSFWENNCKMIYLARNAKDV SVSYHFDLM NNLQFPFGTW EEYLEKFLTG KVAYGSWFTH VKNWWKKKEE HPILFLYYEDMKENPKKEIK KIIRFLEKNL NDEILDRIIH HTSFEVMKDN PLVNYTHLPT TVMDHSKSPF MRKGTAGDWKNYFTVAQNEK FDAIYETEMS KTALQFRTEI
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Official symbol	SULT1B1
GENE INFORMATION	
Gene Name	SULT1B1 sulfotransferase family, cytosolic, 1B, member 1 [Homo sapiens]
Synonyms	sulfotransferase family, cytosolic, 1B, member 1; MGC13356; ST1B2; sulfotransferase family cytosolic 1B member 1; Sulfotransferase 1B1; EC 2.8.2.-; Sulfotransferase 1B2; EC 2.8.2; Thyroid hormone sulfotransferase; EC 2.8.2.1; ST1B1; EC 2.8.2.4; SULT1B2; OTTHUMP00000159773
Gene ID	27284
mRNA Refseq	NM_014465
Protein Refseq	NP_055280
MIM	608436
UniProt ID	O43704

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Chromosome Location	4q13.3
Pathway	Biological oxidations, organism-specific biosystem; Cytosolic sulfonation of small molecules, organism-specific biosystem; Phase II conjugation, organism-specific biosystem
Function	arylsulfotransferase activity; sulfotransferase activity; transferase activity
PDB rendering based on 1xv1.	