

Recombinant Human SULT1A1, His-tagged

Cat. No. SULT1A1-30621TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 26-295 of Human SULT1A1 with N terminal His tag; 270 amino acids, 31kDa.
Species	Human
Source	E.coli
ProteinLength	26-295 a.a.
Description	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 encodes one of two phenol sulfotransferases with thermostable enzyme activity. Multiple alternatively spliced variants that encode two isoforms have been identified for this gene.
Conjugation	HIS
Tissue specificity	Liver, lung, adrenal, brain, platelets and skin.
Form	Lyophilised:Reconstitute with 124 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium hydrogen phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EALGPLQSFQARPDDLSTYPKSGTTWVSQILDMIYQGG DLEKCHRAPIFMRVPFL EFKAPGIPSGMETLKDTPAPR LLKTHLPLALLPQTLLDQKVKVVYVARNKDVAVSY YH FYHMAKVHPEPGTWDSFLEKFMVGEVSYGSWYQHVQEW WELSRTHPVLVLYLF YEDMKENPKREIQKILEFVGRSLPEET VDFVVQHTSFKEMKKNPMTNYTTVPQEFM DHSISPFMR KGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL
Sequence Similarities	Belongs to the sulfotransferase 1 family.

GENE INFORMATION

Gene Name	SULT1A1 sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1 [Homo sapiens]
Official Symbol	SULT1A1
Synonyms	SULT1A1; sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1; STP, STP1; sulfotransferase 1A1; P PST;
Gene ID	6817
mRNA Refseq	NM_001055
Protein Refseq	NP_001046
MIM	171150
Uniprot ID	P50225

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**Chromosome
Location**

16p12.1

Pathway

Biological oxidations, organism-specific biosystem; Cytosolic sulfonation of small molecules, organism-specific biosystem; Metabolism, organism-specific biosystem; Phase II conjugation, organism-specific biosystem; Sulfur metabolism, organism-specific biosystem;

Function

aryl sulfotransferase activity; flavonol 3-sulfotransferase activity; sulfotransferase activity; transferase activity;

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