

# Recombinant human Sulfotransferase 1B1/SULT1B1 protein

Catalog Number: ATGP1537

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-296aa

### UniProt No.

O43704

### NCBI Accession No.

NP\_055280

### Alternative Names

Sulfotransferase family cytosolic 1B member 1, Sulfotransferase family, cytosolic, 1B, member 1, ST1B1, ST1B2, SuLT1B2, Thyroid hormone sulfotransferase

## PRODUCT SPECIFICATION

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### Molecular Weight

37.4 kDa (320aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Sulfotransferase family, 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.

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Recombinant human SuLT1B1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMLSPKD ILRKDLKLVH GYPMTCAFAS NWEKIEQFHS RPDDIVIATY PKSGTTWVSE  
IIDMILNDGD IEKCKRGFIT EKVPMLEMTL PGLRTSGIEQ LEKNPSPRIV KTHLPTDLLP KSFWENNCKM IYLARNAKDV  
SVSYHFDLM NNLQPFPGTW EEYLEKFLTG KVAYGSWFTH VKNWWKKKEE HPILFLYED MKENPKKEIK KIIRFLEKNL  
NDEILDRIIH HTSFEVMKDN PLVNYTHLPT TVMDHRSKSPF MRKGTAGDWK NYFTVAQNEK FDAIYETEMS KTALQFRTEI

## General References

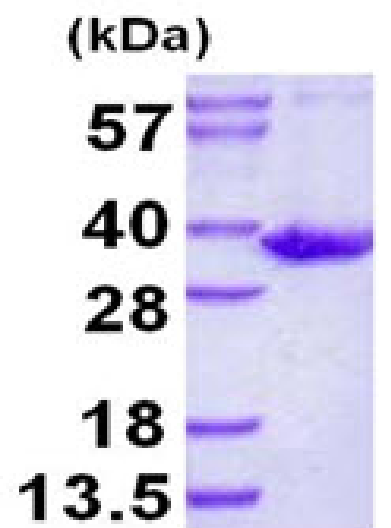
Meinl W., et al. (2001) *Biochem Biophys Res Commun.* 288(4):855-62.

Glatt H., et al. (2000) *Toxicol Lett.* 113: 341-8.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



15% SDS-PAGE (3ug)