

# Recombinant Human SULT1B1 Protein (His Tag)

Catalog Number:PKSH031074



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

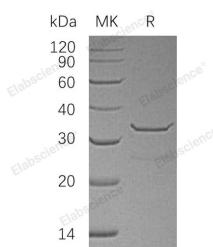
## Description

<b>Synonyms</b>	Sulfotransferase Family Cytosolic 1B Member 1;ST1B1;Sulfotransferase 1B1;Sulfotransferase 1B2;ST1B2;Thyroid Hormone Sulfotransferase;SULT1B1;ST1B2;SULT1B2
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Leu 2-Ile 296
<b>Accession</b>	NP_055280.2
<b>Calculated Molecular Weight</b>	35.7 kDa
<b>Observed molecular weight</b>	34 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Measured by its ability to transfer sulfate from PAPS to 1-Naphthol. The specific activity is > 40 pmoles/min/μg.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 0.1 M NaCl, 10% glycerol, 1mM DTT, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Reconstitution</b>	Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Sulfotransferase family cytosolic 1B member 1; also known as Sulfotransferase 1B1; Sulfotransferase 1B2; Thyroid hormone sulfotransferase; SULT1B1 and ST1B2; is a cytoplasm protein which belongs to the sulfotransferase 1 family. 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. SULT1B1 is

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highly expressed in the liver; peripheral blood leukocytes; colon (mucosal lining); small intestine (jejunum) and spleen. A lesser expression of SULT1B1 was observed in the lung; placenta and thymus. SULT1B1 catalyzes 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. SULT1B1 sulfates dopamine; small phenols such as 1-naphthol and p-nitrophenol and thyroid hormones; including 3,3'-diiodothyronine; triiodothyronine; reverse triiodothyronine and thyroxine.

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