

# Recombinant Human SULT2B1 Protein (aa 2-365, His Tag)



Catalog Number:PKSH031127

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

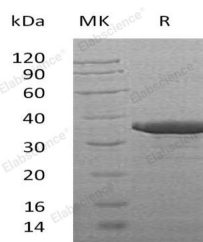
## Description

<b>Synonyms</b>	Sulfotransferase Family Cytosolic 2B Member 1;ST2B1;Sulfotransferase 2B1;Alcohol Sulfotransferase;Hydroxysteroid Sulfotransferase 2;SULT2B1;HSST2
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Asp 2-Ser 365
<b>Accession</b>	NP_004596.2
<b>Calculated Molecular Weight</b>	42 kDa
<b>Observed molecular weight</b>	44 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 76 % 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, 0.1M NaCl, 10% glycerol, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 76 % as determined by reducing SDS-PAGE.

## Background

Sulfotransferase family cytosolic 2B member 1; also known as Sulfotransferase 2B1; ST2B1; Alcohol sulfotransferase; Hydroxysteroid sulfotransferase 2; SULT2B1 and HSST2; is a cytoplasm protein which belongs to the sulfotransferase 1 family. The human hydroxysteroid sulfotransferase (SULT) family is comprised of two subfamilies; SULT2A1 and SULT2B1. SULT2B1 is expressed highly in placenta; prostate and trachea. A lesser expression of SULT1B1 was observed in the small intestine and lung. SULT2B1 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. SULT2B1 sulfates

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hydroxysteroids like DHEA. Isoform1 preferentially sulfonates cholesterol. The two SULT2B1 isoforms; SULT2B1a and SULT2B1b; are encoded by a single gene as a result of alternative transcription initiation and alternative splicing. SULT2B1b catalyzes the sulfonation of 3beta-hydroxysteroid hormones and cholesterol; whereas SULT2B1a preferentially catalyzes pregnenolone sulfonation.

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