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

Catalog No. PKSH031127

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

## **Description**

Synonyms Sulfotransferase Family Cytosolic 2B Member 1;ST2B1;Sulfotransferase

2B1; Alcohol Sulfotransferase; Hydroxysteroid Sulfotransferase 2; SULT2B1; HSST2

SpeciesHumanExpression HostE.coli

 Sequence
 Asp 2-Ser 365

 Accession
 NP\_004596.2

Calculated Molecular Weight42 kDaObserved molecular weight44 kDaTagN-His

**Bioactivity** Not validated for activity

## **Properties**

**Purity** > 76 % as determined by reducing SDS-PAGE.

**Endotoxin** Please contact us for more information.

**Storage** 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.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 20mM Tris, 0.1M NaCl, 10% glycerol, pH 8.0

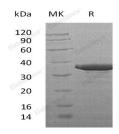
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** 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;

#### For Research Use Only

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## **Elabscience Bionovation Inc.**



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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 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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