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

Catalog Number: PKSH031127

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

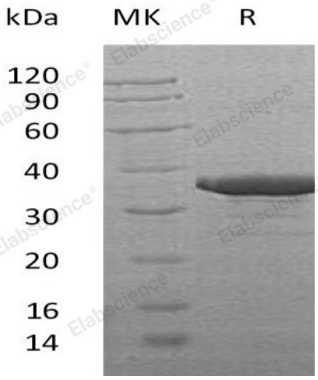
Description

Species	Human
Source	E.coli-derived Human SULT2B1 protein Asp 2-Ser 365, with an N-terminal His
Calculated MW	42 kDa
Observed MW	44 kDa
Accession	NP_004596.2
Bio-activity	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% Tween 80 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; Hydroxysteroid sulfotransferase 2; SULT2B1 and HSST2; is a cytoplasm protein which belongs to thesulfotransferase 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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