Recombinant Human SULT1B1 Protein (His Tag)

Catalog Number: PKSH031074

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

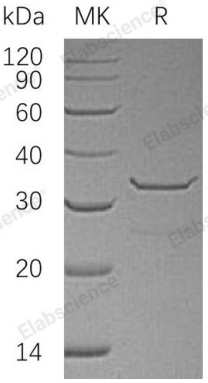
Description

Species	Human
Source	E.coli-derived Human SULT1B1 protein Leu 2-Ile 296, with an N-terminal His
Calculated MW	35.7 kDa
Observed MW	34 kDa
Accession	NP_055280.2
Bio-activity	Measured by its ability to transfer sulfate from PAPS to 1-Napthol. The specific activity is > 40 pmoles/min/μg.

Properties

Purity	> 95% 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 20 mM Tris, 0.1 M NaCl, 10% glycerol, 1 mM DTT, 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



> 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 thesulfotransferase 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 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; triidothyronine; reverse triiodothyronine and thyroxine.

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