

Datasheet for ABIN7317530

SULT1B1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	SULT1B1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SULT1B1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SULT1B1 Protein (His Tag)(Active)
Sequence:	Leu 2-Ile 296
Characteristics:	A DNA sequence encoding the human SULT1B1 (NP_055280.2) (Leu 2-Ile 296) was expressed, with a N-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its ability to transfer sulfate from PAPS to 1-Naphthol. The specific activity is > 40 pmoles/min/µg.

Target Details

Target:	SULT1B1
Alternative Name:	SULT1B1 (SULT1B1 Products)

Target Details

Background:	<p>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 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.</p> <p>Synonym: Sulfotransferase Family Cytosolic 1B Member 1; ST1B1; Sulfotransferase 1B1; Sulfotransferase 1B2; ST1B2; Thyroid Hormone Sulfotransferase; SULT1B1; ST1B2; SULT1B2</p>
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Molecular Weight:	35.7 kDa
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NCBI Accession:	NP_055280
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile 20 mM Tris, 0.1 M NaCl, 10 % glycerol, 1 mM DTT, pH 8.0
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>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.</p>
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