

Datasheet for ABIN7317564 **SULT1A3 Protein (His tag)**

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Overview

Quantity:	50 µg
Target:	SULT1A3
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SULT1A3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SULT1A3 Protein (His Tag)(Active)
Sequence:	Glu2-Leu295
Characteristics:	A DNA sequence encoding the mature form of human SULT1A3 (NP_808220.1) (Glu2-Leu295) was expressed with a polyhistidine tag at the N-terminus.
Purity:	> 94 % 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 > 150 pmoles/min/µg.

Target Details

Target:	SULT1A3
Alternative Name:	SULT1A3 (SULT1A3 Products)

Target Details

Background:	Background: SULT1A3 belongs to the sulfotransferase 1 family. Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. They are different in their tissue distributions and substrate specificities while their gene structure (number and length of exons) is similar. SULT1A3 gene encodes a phenol sulfotransferase with thermolabile enzyme activity. Four sulfotransferase genes are located on the p arm of chromosome 16, this gene and SULT1A4 arose from a segmental duplication. It is the most centromeric of the four sulfotransferase genes. Exons of this gene overlap with exons of a gene that encodes a protein containing GIY-YIG domains (GIYD1). SULT1A3 is expressed in liver, colon, kidney, lung, brain, spleen, small intestine, placenta and leukocyte. SULT1A3 is a sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of phenolic monoamines (neurotransmitters such as dopamine, norepinephrine and serotonin) and phenolic and catechol drugs. Synonym: Sulfotransferase 1A3/1A4, ST1A3/ST1A4, Aryl Sulfotransferase 1A3/1A4, Catecholamine-Sulfating Phenol Sulfotransferase, HAST3, M-PST, Monoamine-Sulfating Phenol Sulfotransferase, Placental Estrogen Sulfotransferase, Sulfotransferase Monoamine-Preferring, Thermolabile Phenol Sulfotransferase, TL-PST, SULT1A3, STM, SULT1A4,HAST,HAST3,M-PST,ST1A5,STM
Molecular Weight:	30.5 kDa
NCBI Accession:	NP_808220
Pathways:	ER-Nucleus Signaling

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.