

Active Recombinant Human SULT1A3 Protein

Cat. No. SULT1A3-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SULT1A3 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	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. The gene structure (number and length of exons) is similar among family members. This 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. This gene is the most centromeric of the four sulfotransferase genes. Read-through transcription exists between this gene and the upstream SLX1A (SLX1 structure-specific endonuclease subunit homolog A) gene that encodes a protein containing GIY-YIG domains.
Bio-activity	SULT Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 50 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride, 10 mM dithiothreitol and 20 μM PAPS) Substrate: 1-naphthol Linear with time up to: 12 min(Determined at 5 μM substrate, using a protein concentration of 2 μg/ml) Linear with protein up to: 10 μg/ml(Determined at 5 μM substrate, using an incubation

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	time of 5 min) Vmax: 32 nmol/min/mg protein Km: 4.3 μ M
Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	Protein Concentration: 10 mg/ml
Storage Buffer	10 mM sodium phosphate (pH 7.4), 140 mM NaCl
GENE INFORMATION	
Gene Name	SULT1A3 sulfotransferase family 1A member 3 [Homo sapiens (human)]
Official Symbol	SULT1A3
Synonyms	SULT1A3; sulfotransferase family 1A member 3; STM; HAST; HAST3; M-PST; ST1A3; ST1A4; ST1A5; TL-PST; ST1A3/ST1A4; sulfotransferase 1A3; Sulfotransferase 1A4; aryl sulfotransferase 1A3/1A4; catecholamine-sulfating phenol sulfotransferase; dopamine-specific sulfotransferase; monoamine-sulfating phenosulfotransferase; phenol sulfotransferase 1A5; placental estrogen sulfotransferase; sulfokinase; sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3; thermolabile (monoamine, M form) phenol sulfotransferase
Gene ID	6818
mRNA Refseq	NM_177552
Protein Refseq	NP_808220

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MIM	600641
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UniProt ID	Q1ET61
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