

Active Recombinant Human SULT1A1 Protein

Cat. No. SULT1A1-88H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SULT1A1 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 one of two phenol sulfotransferases with thermostable enzyme activity. Multiple alternatively spliced variants that encode two isoforms have been identified for this gene.
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: 4-methylumbelliferone Linear with time up to: 8 min(Determined at 2 μM substrate, using a protein concentration of 2.5 μg/ml) Linear with protein up to: 10 μg/ml(Determined at 2 μM substrate, using an incubation time of 5 min) Vmax: 9.0 nmol/min/mg protein Km: 1.9 μM

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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	SULT1A1 sulfotransferase family 1A member 1 [Homo sapiens (human)]
Official Symbol	SULT1A1
Synonyms	SULT1A1; sulfotransferase family 1A member 1; PST; STP; STP1; P-PST; ST1A1; ST1A3; TSPST1; HAST1/HAST2; sulfotransferase 1A1; P-PST 1; aryl sulfotransferase 1; phenol-sulfating phenol sulfotransferase 1; sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1; thermostable phenol sulfotransferase1; ts-PST
Gene ID	6817
mRNA Refseq	NM_001055
Protein Refseq	NP_001046
MIM	171150
UniProt ID	P50225

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