

Active Recombinant Human SULT1A2 Protein

Cat. No. SULT1A2-93H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SULT1A2 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. Two alternatively spliced variants that encode the same protein have been described.
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 1.2 μM substrate, using a protein concentration of 2.5 μg/ml) Linear with protein up to: 10 μg/ml(Determined at 1.2 μM substrate, using an incubation time of 5 min) Vmax: 27 nmol/min/mg protein Km: 0.23 μM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	SULT1A2 sulfotransferase family 1A member 2 [Homo sapiens (human)]
Official Symbol	SULT1A2
Synonyms	SULT1A2; sulfotransferase family 1A member 2; STP2; HAST4; P-PST; ST1A2; TSPST2; P-PST 2; sulfotransferase 1A2; aryl sulfotransferase 2; arylamine sulfotransferase; phenol sulfotransferase 2; phenol-preferring phenol sulfotransferase2; phenol-sulfating phenol sulfotransferase 2; phenolic-metabolizing (P) form of PST; sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2; thermostable phenol sulfotransferase
Gene ID	6799
mRNA Refseq	NM_177528
Protein Refseq	NP_803564
MIM	601292
UniProt ID	P50226

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