

Active Recombinant Human SULT2A1 Protein

Cat. No. SULT2A1-92H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human SULT2A1 protein without tag was expressed in E. coli.

Species Human

Source E.coli

Description This gene encodes a member of the sulfotransferase family. Sulfotransferases aid in the metabolism of drugs and endogenous compounds by converting these substances into more hydrophilic water-soluble sulfate conjugates that can be easily excreted. This protein catalyzes the sulfation of steroids and bile acids in the liver and adrenal glands, and may have a role in the inherited adrenal androgen excess in women with polycystic ovary syndrome.

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 μ M PAPS)
Substrate: 17 β -estradiol (3-sulfate formation)
Linear with time up to: 12 min(Determined at 1 μ M substrate, using a protein concentration of 12.5 μ g/ml)
Linear with protein up to: 60 μ g/ml(Determined at 1 μ M substrate, using an incubation time of 5 min)
Vmax: 1.1 nmol/min/mg protein
Km: 2.4 μ M

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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	SULT2A1 sulfotransferase family 2A member 1 [Homo sapiens (human)]
Official Symbol	SULT2A1
Synonyms	SULT2A1; sulfotransferase family 2A member 1; HST; ST2; STD; hSTa; DHEAS; ST2A1; ST2A3; DHEA-ST; bile salt sulfotransferase; alcohol/hydroxysteroid sulfotransferase; bile-salt sulfotranasferase 2A1; sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA)-preferring, member 1
Gene ID	6822
mRNA Refseq	NM_003167
Protein Refseq	NP_003158
MIM	125263
UniProt ID	Q06520

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