

Active Recombinant Human SULT1E1 Protein

Cat. No. SULT1E1-91H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SULT1E1 protein without tag were coexpressed 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 protein that transfers a sulfo moiety to and from estrone, which may control levels of estrogen receptors.
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: 17β-estradiol (3-sulfate formation) Linear with time up to: 12 min(Determined at 20 nM substrate, using a protein concentration of 25 ng/ml) Linear with protein up to: 40 ng/ml(Determined at 20 nM substrate, using an incubation time of 5 min) Vmax: 22 nmol/min/mg protein Km: 5.0 nM

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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	SULT1E1 sulfotransferase family 1E member 1 [Homo sapiens (human)]
Official Symbol	SULT1E1
Synonyms	SULT1E1; sulfotransferase family 1E member 1; EST; STE; EST-1; ST1E1; sulfotransferase 1E1; estrogen sulfotransferase; estrone sulfotransferase; sulfotransferase family 1E, estrogen-preferring, member 1; sulfotransferase, estrogen-preferring
Gene ID	6783
mRNA Refseq	NM_005420
Protein Refseq	NP_005411
MIM	600043
UniProt ID	P49888

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