

## 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  $\mu$ M PAPS)

Substrate: 4-methylumbelliferone

Linear with time up to: 8 min(Determined at 2  $\mu$ M substrate, using a protein concentration of 2.5  $\mu$ g/ml)

Linear with protein up to: 10  $\mu$ g/ml(Determined at 2  $\mu$ M substrate, using an incubation time of 5 min)

Vmax: 9.0 nmol/min/mg protein

Km: 1.9  $\mu$ M

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|                       |   |
|-----------------------|---|
| <b>Usage</b>          | For laboratory (research) purposes only                                   |
| <b>Storage</b>        | Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice. |
| <b>Concentration</b>  | Protein Concentration: 10 mg/ml   |
| <b>Storage Buffer</b> | 10 mM sodium phosphate (pH 7.4), 140 mM NaCl                              |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | SULT1A1 sulfotransferase family 1A member 1 [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | SULT1A1  |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 6817   |
| <b>mRNA Refseq</b>     | NM_001055  |
| <b>Protein Refseq</b>  | NP_001046  |
| <b>MIM</b>             | 171150   |
| <b>UniProt ID</b>      | P50225   |

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