

# Recombinant Human SULT1A1 Protein (Glu2-Leu295), His tagged

**Cat. No.** SULT1A1-6376H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant human SULT1A1 (Glu2-Leu295) fused with His tag was expressed in E. coli.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | Glu2-Leu295  |
| <b>Description</b>      | <p>Sulfate conjugation catalyzed by cytosolic sulfotransferase (SULT) enzymes. The SULTs are Phase II drug-metabolizing enzymes that catalyze the addition of a sulfuryl moiety to both endogenous compounds, including steroids and neurotransmitters, and certain xenobiotics, including N-hydroxy-2-acetylaminoflourine and phenolic compounds, like alpha-naphthol. SULTs may be involved in the individual genetic disposition, species differences, and organotropisms for toxicological effects of chemicals. Particularly SULT1A1 (Sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1), a member of the sulfotransferase 1 subfamily, which is a major pathway for drug metabolism in humans. Humans have at least 1 functional SULT genes. There has been an explosion in information on sulfotransferase polymorphisms and their functional consequences. An Arg213His polymorphism in SULT1A1 has a strong influence on the level of enzyme protein and activity in platelets, which have been widely used for phenotyping. Statistically significant associations were observed between the SULT1A1 genotype (Arg213His) and age, obesity and certain neoplasias (mammary, pulmonary, eso</p> |

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|                       |   |
|-----------------------|---|
|                       | phageal and urothelial cancer). Furthermore, the polymorphism of the SULT1A1 may be closely associated with breast cancer.  |
| <b>Form</b>           | Lyophilized powder/frozen liquid  |
| <b>Molecular Mass</b> | 35.01 kDa   |
| <b>Purity</b>         | > 90 % as determined by SDS-PAGE  |
| <b>Notes</b>          | For research use only.  |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b> | Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.   |
| <b>Reconstitution</b> | Reconstitute in sterile water for a stock solution.   |
| <b>Shipping</b>       | They are shipped out with dry ice/blue ice unless customers require otherwise.  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | SULT1A1 sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1 [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | SULT1A1  |
| <b>Synonyms</b>        | SULT1A1; sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1; STP, STP1; sulfotransferase 1A1; P PST; ts-PST; P-PST 1; aryl sulfotransferase 1; thermostable phenol sulfotransferase1; phenol-sulfating phenol sulfotransferase 1; |

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PST; STP; STP1; P-PST; ST1A1; ST1A3; TSPST1; HAST1/HAST2; MGC5163;  
MGC131921;

**Gene ID** 6817

**mRNA Refseq** NM\_001055

**Protein Refseq** NP\_001046

**MIM** 171150

**UniProt ID** P50225

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