

# Recombinant Human Sulfotransferase Family, Cytosolic, 2B, Member 1

**Cat. No.** SULT2B1-1473H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | SULT2B1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 365 amino acids (1-365 a.a.) and having a molecular mass of 41.3 kDa. SULT2B1 protein is purified by standard chromatography.                                                                                                                                                                                                                                                                                             |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>       | 1-365 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>         | SULT2B1 catalyzes the sulfate conjugation of numerous hormones, neurotransmitters, drugs and xenobiotic compounds. Sulfonation enhances the water solubility of molecules, and therefore their renal excretion, however it can also result in bioactivation to form active metabolites. SULT2B1b is localized in the cytosol and nuclei of human cells. SULT2B1b is selective for the sulfation of 3beta-hydroxysteroids such as dehydroepiandrosterone and pregnenolone, and participates in cholesterol sulfation in human skin. |
| <b>Form</b>                | (SULT2B1 Human solution containing 20mM Tris HCL pH-7.5, & 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>              | Greater than 85.0% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Physical Appearance</b> | Sterile Filtered colorless solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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

**Amino acid sequence**

MDGPAEPQIP GLWDTYEDDI SEISQKLPGE YFRYKGVFPF VGLYSLESIS  
 LAENTQDVRD DDIFIITYPK SGTWWMIEII CLILKEGDPS WIRSVPIWER  
 APWCETIVGA FSLPDQYSPR LMSSHLPIQI FTKAFFSSKA KVIYMGRNPR  
 DVVVSlyHYS KIAGQLKDPG TPDQFLRDFL KGEVQFGSWF DHIKGWLRMK  
 GKDNFLFITY EELQQDLQGS VERICGFLGR PLGKEALGSV VAHSTFSAMK  
 ANTMSNYTLL PPSLLDHRRG AFLRKGVC GD WKNHFTVAQS EAFDRAYRKQ  
 MRGMPTFPWD EDPEEDGSPD PEPSPEPEPK PSLEPNTSLE REPRPNSSPS  
 PSPGQASETP HPRPS.

**Storage**

SULT2B1 Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles

**GENE INFORMATION**
**Gene Name**

[SULT2B1 sulfotransferase family, cytosolic, 2B, member 1 \[ Homo sapiens \]](#)

**Official Symbol**

[SULT2B1](#)

**Synonyms**

SULT2B1; sulfotransferase family, cytosolic, 2B, member 1; HSST2; sulfotransferase family cytosolic 2B member 1; ST2B1; sulfotransferase 2B1; alcohol sulfotransferase; hydroxysteroid sulfotransferase 2; Hydroxysteroid sulfotransferase 2; Sulfotransferase 2B1; Alcohol sulfotransferase; EC 2.8.2.2

**Gene ID**

[6820](#)

**mRNA Refseq**

[NM\\_004605](#)

**Protein Refseq**

[NP\\_004596](#)

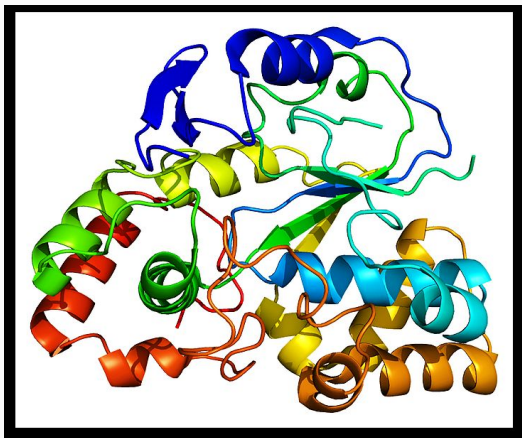
**MIM**

[604125](#)

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|                                   |                                                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>                 | O00204                                                                                                      |
| <b>Chromosome Location</b>        | 19q13.3                                                                                                     |
| <b>Pathway</b>                    | Steroid hormone biosynthesis; Sulfur metabolism; Biological oxidations                                      |
| <b>Function</b>                   | alcohol sulfotransferase activity; protein binding; steroid sulfotransferase activity; transferase activity |
| <b>PDBrendering based on 1q1q</b> |                          |