Datasheet for ABIN7546472

# SULT2A1 Protein (AA 1-285) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | SULT2A1 |
| Protein Characteristics: | AA 1-285 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SULT2A1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant SULT2A1 Protein expressed in mammalian cells. |
| Sequence: | MSDDFLWFEG IAFPTMGFRS ETLRKVRDEF VIRDEDVIIL TYPKSGTNWL AEILCLMHSK GDAKWIQSVP IWERSPWVES EIGYTALSET ESPRLFSSHL PIQLFPKSFF SSKAKVIYLM RNPRDVLVSG YFFWKNMKFI KKPKSWEEYF EWFCQGTVLY GSWFDHIHGW MPMREEKNFL LLSYEELKQD TGRTIEKICQ FLGKTLEPEE LNLILKNSSF QSMKENKMSN YSLLSVDYVV DKAQLLRKGV SGDWKNHFTV AQAEDFDKLF QEKMADLPRE LFPWE **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits: |

## Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | SULT2A1 |
| Alternative Name: | SULT2A1 (SULT2A1 Products) |
| Background: | Sulfotransferase 2A1 (ST2A1) (EC 2.8.2.2) (Bile salt sulfotransferase) (EC 2.8.2.14) (Dehydroepiandrosterone sulfotransferase) (DHEA-ST) (DHEA-ST8) (Hydroxysteroid Sulfotransferase) (HST) (ST2) (SULT2A3),FUNCTION: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfonation of steroids and bile acids in the liver and adrenal glands. Mediates the sulfation of a wide range of steroids and sterols, including pregnenolone, androsterone, DHEA, bile acids, cholesterol and as well many xenobiotics that contain alcohol and phenol functional groups (PubMed:7678732, PubMed:2268288, PubMed:14573603, PubMed:18042734, PubMed:19589875, PubMed:21187059, PubMed:29671343, PubMed:7854148). Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Plays an important role in maintening steroid and lipid homeostasis (PubMed:21187059, PubMed:19589875, PubMed:14573603). Plays a key role in bile acid metabolism (PubMed:2268288). In addition, catalyzes the metabolic activation of potent carcinogenic polycyclic arylmethanols (By similarity). {ECO:0000250\|UniProtKB:P15709, |

## Target Details

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| | ECO:0000269\|PubMed:14573603, ECO:0000269\|PubMed:18042734, ECO:0000269\|PubMed:19589875, ECO:0000269\|PubMed:21187059, ECO:0000269\|PubMed:2268288, ECO:0000269\|PubMed:29671343, ECO:0000269\|PubMed:7678732, ECO:0000269\|PubMed:7854148}. |
| Molecular Weight: | 33.8 kDa |
| UniProt: | Q06520 |
| Pathways: | Steroid Hormone Biosynthesis, Regulation of Lipid Metabolism by PPARalpha, Monocarboxylic Acid Catabolic Process |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |

 