

Datasheet for ABIN7563421  
**SULT1A1 Protein (AA 1-291) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SULT1A1
Protein Characteristics:	AA 1-291
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SULT1A1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Sult1a1 Protein expressed in mammalian cells.
Sequence:	MEPLRKPLVP VKGIPLIKYF AETMEQLQNF TAWPDDVLIS TYPKSGTNWM SEIMDMIYQG GKLDKCGRAP VYARIPFLEF SCPGVPPGLE TLKETPAPRI IKTHLPLSLL PQSLLDQKIK VIYVARNAKD VVVSYYNFYK MAKLHPDPGT WESFLENFMD GKVSYGSWYQ HVKEWWELRR THPVLYLFYE DMKENPKREI KKILEFLGRS LPEETVDLIV HHTSFKKMKE NPMANYTTIP TEVMDHTIYP FMRKGTIGDW KNTFTVAQSE HFDAHYAKLM TGCDFTFRCQ   <b>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.</b>
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

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- 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

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## Target Details

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Target:	SULT1A1
Alternative Name:	Sult1a1 ( <a href="#">SULT1A1 Products</a> )
Background:	<p>Sulfotransferase 1A1 (ST1A1) (EC 2.8.2.1) (Aryl sulfotransferase) (Phenol sulfotransferase) (Phenol/aryl sulfotransferase) (mSTp1) (ST1A4) (Sulfokinase),FUNCTION: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of a wide variety of acceptor molecules bearing a hydroxyl or an amine group. Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Displays broad substrate specificity for small phenolic compounds. Plays an important role in the sulfonation of endogenous molecules such as steroid hormones and 3,3'-diiodothyronin (By similarity). Mediates the sulfate conjugation of a variety of xenobiotics, including the drugs acetaminophen and minoxidil (By similarity). Mediates also the metabolic activation of carcinogenic N-hydroxyarylamines leading to highly reactive intermediates capable of forming DNA adducts, potentially resulting in mutagenesis (By similarity). May play a role in gut microbiota-host metabolic interaction. O-sulfonates 4-ethylphenol (4-EP), a dietary tyrosine-derived metabolite produced by gut bacteria. The product 4-EPS crosses the blood-brain barrier and may</p>

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## Target Details

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negatively regulate oligodendrocyte maturation and myelination, affecting the functional connectivity of different brain regions associated with the limbic system.  
{ECO:0000250|UniProtKB:P17988, ECO:0000250|UniProtKB:P50225}.

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Molecular Weight: 34.0 kDa

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UniProt: [P52840](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months