

Datasheet for ABIN7546320
SULT1B1 Protein (AA 1-296) (His tag)



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Overview

Quantity:	1 mg
Target:	SULT1B1
Protein Characteristics:	AA 1-296
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SULT1B1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SULT1B1 Protein expressed in mammalian cells.
Sequence:	MLSPKDILRK DLKLVHGYPM TCAFASNWEK IEQFHSPDD IVIATYPKSG TTWVSEIIDM ILNDGDIEKC KRGFITEKVP MLEMTLPGLR TSGIEQLEKN PSPRIVKTHL PTDLLPKSFW ENNCKMIYLA RNAKDVSYSY YHFDLMNNLQ PFPGTWEEYL EKFLTGKVAY GSWFTHVKNW WKKKKEHPIL FLYYEDMKEN PKEEIKKIIR FLEKNLNDEI LDRIIHHTSF EVMKDNPLVN YTHLPTTVMD HSKSPFMRKG TAGDWKNYFT VAQNEKFDAL YETEMSKTAL QFRTEI 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.

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

Target:	SULT1B1
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Alternative Name:	SULT1B1 (SULT1B1 Products)
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Background:	Sulfotransferase 1B1 (ST1B1) (EC 2.8.2.1) (Sulfotransferase 1B2) (Sulfotransferase family cytosolic 1B member 1) (Thyroid hormone sulfotransferase),FUNCTION: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of dopamine, small phenols such as 1-naphthol and p-nitrophenol and thyroid hormones, including 3,3'-diiodothyronine, triiodothyronine (T3) and reverse triiodothyronine (rT3) (PubMed:28084139, PubMed:9443824, PubMed:9463486). 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 negatively regulate oligodendrocyte maturation and myelination, affecting the functional connectivity of different brain regions associated with the limbic system (PubMed:35165440). {ECO:0000269 PubMed:28084139, ECO:0000269 PubMed:35165440, ECO:0000269 PubMed:9443824, ECO:0000269 PubMed:9463486}.
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Molecular Weight:	34.9 kDa
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UniProt:	O43704
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Application Details

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

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
