

Datasheet for ABIN755529
SLC01B3 Protein (AA 1-702) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC01B3
Protein Characteristics:	AA 1-702
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC01B3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC01B3 Protein expressed in mammalien cells.
Sequence:	MDQHQLNKT AESASSEKKK TRRCNGFKMF LAALSFSYIA KALGGIIMKI SITQIERRFD ISSSLAGLID GSFEIGNLLV IVFVSYFGSK LHRPKLIGIG CLLMGTGSIL TSLPHFFMGY YRYSKETHIN PSENSTSSLS TCLINQTLF NGTSPEIVEK DCVKESGSHM WIYVFMGNML RGIGETPIVP LGISYIDFKA KEGHSSLYLG SLNAIGMIGP VIGFALGSLF AKMYVDIGYV DLSTIRITPK DSRWVGAWWL GFLVSGLFSI ISSIPFFFLP KNPKNPQKER KISLSLHV LK TNDDRNTAN LTNQGNVTK NVTGFFQSLK SILTNPLYVI FLLLTLQVS SFIGSFTYVF KYMEQQYQGS ASHANFLGI ITIPTVATGM FLGGFIIKKF KLSLVGIAKF SFLTSMISFL FQLLYFPLIC ESKSVAGLTL TYDGNNSVAS HVDVPLSYCN SECNCDESQW EPVCGNNGIT YLSPCLAGCK SSSGIKKHTV FYNCSCVEVT GLQNRNYSAH LGECPDNTC TRKFFIYVAI QVINSLEFSA TGGTTFILLTV KIVQPELKAL AMGFQSMVIR TLGGILAPIY FGALIDKTCM KWSTNSCGAQ GACRIYNSVF FGRVYLGLSI ALRFPALVLY IVFIFAMKKK FQKDKTKASD NERKVMDEAN LEFLNNGEHF

VPSAGTDSKT CNLDMQDNAA AN **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.**

Characteristics:

Key Benefits:

- 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, Western Blot

Grade:

custom-made

Target Details

Target:

SLC01B3

Alternative Name:

SLC01B3 ([SLC01B3 Products](#))

Background:

Solute carrier organic anion transporter family member 1B3 (Liver-specific organic anion transporter 2) (LST-2) (OATP1B3) (Organic anion transporter 8) (Organic anion-transporting polypeptide 8) (OATP-8) (Solute carrier family 21 member 8),FUNCTION: Mediates the Na(+)-independent uptake of organic anions (PubMed:15159445, PubMed:17412826, PubMed:10779507). Shows broad substrate specificity, can transport both organic anions such as bile acid taurocholate (cholytaurine) and conjugated steroids (17-beta-glucuronosyl estradiol, dehydroepiandrosterone sulfate (DHEAS), and estrone 3-sulfate), as well as eicosanoid leukotriene C4, prostaglandin E2 and L-thyroxine (T4) (PubMed:15159445, PubMed:17412826, PubMed:10779507, PubMed:12568656, PubMed:11159893, PubMed:19129463). Hydrogencarbonate/HCO3(-) acts as the probable counteranion that

Target Details

exchanges for organic anions (PubMed:19129463). Shows a pH-sensitive substrate specificity towards sulfated steroids, taurocholate and T4 which may be ascribed to the protonation state of the binding site and leads to a stimulation of substrate transport in an acidic microenvironment (PubMed:19129463). Involved in the clearance of bile acids and organic anions from the liver (PubMed:22232210). Can take up bilirubin glucuronides from plasma into the liver, contributing to the detoxification-enhancing liver-blood shuttling loop (PubMed:22232210). Transports coproporphyrin I and III, by-products of heme synthesis, and may be involved in their hepatic disposition (PubMed:26383540). May contribute to regulate the transport of organic compounds in testes across the blood-testis-barrier (Probable). Can transport HMG-CoA reductase inhibitors (also known as statins) such as pitavastatin, a clinically important class of hypolipidemic drugs (PubMed:15159445). May play an important role in plasma and tissue distribution of the structurally diverse chemotherapeutic drugs methotrexate and paclitaxel (PubMed:23243220). May also transport antihypertension agents, such as the angiotensin-converting enzyme (ACE) inhibitor prodrug enalapril, and the highly selective angiotensin II AT1-receptor antagonist valsartan, in the liver (PubMed:16627748, PubMed:16624871). {ECO:0000269|PubMed:10779507, ECO:0000269|PubMed:11159893, ECO:0000269|PubMed:12568656, ECO:0000269|PubMed:15159445, ECO:0000269|PubMed:16624871, ECO:0000269|PubMed:16627748, ECO:0000269|PubMed:17412826, ECO:0000269|PubMed:19129463, ECO:0000269|PubMed:22232210, ECO:0000269|PubMed:23243220, ECO:0000269|PubMed:26383540, ECO:0000305|PubMed:35307651}.

Molecular Weight: 77.4 kDa

UniProt: [Q9NPD5](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months