

Datasheet for ABIN755528
SLC01A2 Protein (AA 1-670) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC01A2
Protein Characteristics:	AA 1-670
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC01A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC01A2 Protein expressed in mammalien cells.
Sequence:	MGETEKRIET HRIRCLSKLK MFLLAITCAF VSKTLSGSYM NSMLTQIERQ FNIPTSLVGF INGSFEIGNL LLIIFVSYFG TKLHRPIMIG IGCVVMGLGC FLKSLPHFLM NQYESTVS VSGNLSSNSF LCMENGTQIL RPTQDPSECT KEVKSLMWVY VLVGNIVRGM GETPILPLGI SYIEDFAKFE NSPLYIGLVE TGAIIGPLIG LLLASF CANV YVDTGFVNTD DLIITPTDTR WVGAWWFGFL ICAGVNVLTA IPFFFLPNTL PKEGLETNAD IIKNENEDKQ KEEVKKEKYG ITKDFLPFMK SLSCNPIYML FILVSVIQFN AFVNMISFMP KYLEQQYGIS SSDAIFLMGI YNLPPICIGY IIGGLIMKKF KITVKQAAHI GCWLSLLEYL LYFLSFLMTC ENSSVVGINT SYEGIPQDLY VENDIFADCN VDCNCPSKIW DPVCGNNGLS YLSACLAGCE TSIGTGINMV FQNCSCIQTS GNSSAVLGLC DKGPDCLML QYFLILSAMS SFIYSLAAIP GYMVLLRCMK SEEKSLGVGL HTFCTRVFAG IPAPIYFGAL MDSTCLHWGT LKCGESGACR IYDSTTFRYI YLGLPAALRG SSFVPALIIL ILLRKCHLPG ENASSGTELI ETKVKGKENE CKDIYQKSTV

LKDELKTKL **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:

SLC01A2

Alternative Name:

SLC01A2 ([SLC01A2 Products](#))

Background:

Solute carrier organic anion transporter family member 1A2 (OATP1A2) (OATP-A) (Organic anion-transporting polypeptide 1) (OATP-1) (Sodium-independent organic anion transporter) (Solute carrier family 21 member 3),FUNCTION: Na(+)-independent transporter that mediates the cellular uptake of a broad range of organic anions such as the endogenous bile salts cholate and deoxycholate, either in their unconjugated or conjugated forms (taurocholate and glycocholate), at the plasmam membrane (PubMed:7557095, PubMed:19129463). Responsible for intestinal absorption of bile acids (By similarity). Transports dehydroepiandrosterone 3-sulfate (DHEAS), a major circulating steroid secreted by the adrenal cortex, as well as estrone 3-sulfate and 17beta-estradiol 17-O-(beta-D-glucuronate) (PubMed:9539145, PubMed:23918469, PubMed:25560245, PubMed:12568656, PubMed:11159893, PubMed:19129463). Mediates

Target Details

apical uptake of all-trans-retinol (atROL) across human retinal pigment epithelium, which is essential to maintaining the integrity of the visual cycle and thus vision (PubMed:25560245). Involved in the uptake of clinically used drugs (PubMed:17301733, PubMed:20686826, PubMed:27777271). Capable of thyroid hormone transport (both T3 or 3,3',5'-triiodo-L-thyronine, and T4 or L-tyroxine) (PubMed:20358049, PubMed:19129463). Also transports prostaglandin E2 (PubMed:19129463). Plays roles in blood-brain and -cerebrospinal fluid barrier transport of organic anions and signal mediators, and in hormone uptake by neural cells (By similarity). May also play a role in the reuptake of neuropeptides such as substance P/TAC1 and vasoactive intestinal peptide/VIP released from retinal neurons (PubMed:25132355). May play an important role in plasma and tissue distribution of the structurally diverse chemotherapeutic drugs methotrexate and paclitaxel (PubMed:23243220). Shows a pH-sensitive substrate specificity 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). Hydrogencarbonate/HCO₃⁻ acts as the probable counteranion that exchanges for organic anions (PubMed:19129463). May contribute to regulate the transport of organic compounds in testis across the blood-testis-barrier (Probable).

{ECO:0000250|UniProtKB:O88397, ECO:0000250|UniProtKB:Q91YY5, ECO:0000269|PubMed:11159893, ECO:0000269|PubMed:12568656, ECO:0000269|PubMed:17301733, ECO:0000269|PubMed:19129463, ECO:0000269|PubMed:20358049, ECO:0000269|PubMed:20686826, ECO:0000269|PubMed:23243220, ECO:0000269|PubMed:23918469, ECO:0000269|PubMed:25132355, ECO:0000269|PubMed:25560245, ECO:0000269|PubMed:27777271, ECO:0000269|PubMed:7557095, ECO:0000269|PubMed:9539145, ECO:0000305|PubMed:35307651}.

Molecular Weight: 74.1 kDa

UniProt: [P46721](#)

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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months