

Datasheet for ABIN7551726

SLC5A6 Protein (AA 1-635) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC5A6
Protein Characteristics:	AA 1-635
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC5A6 Protein expressed in mammalian cells.
Sequence:	<p>MSVGVSTSAP LSPTSGTSVG MSTFSIMDYV VFVLLLVLSSL AIGLYHACRG WGRHTVGELL</p> <p>MADRKMGCLP VALSLLATFQ SAVAILGVPS EIYRFGTQYW FLGCCYFLGL LIPAHIFIPV</p> <p>FYRLHLTSAY EYLELRFNKT VRVCGTVTFI FQMVIYMGVV LYAPSLALNA VTGFDLWLSV</p> <p>LALGIVCTVY TALGGLKAVI WTDVFQTLVM FLGQLAVIIV GSAKVGGLGR VWAVASQHGR</p> <p>ISGFELDPDP FVRHTFWTLA FGGVFMMLSL YGVNQAQVQR YLSSRTEKAA VLSCYAVFPF</p> <p>QQVSLCVGCL IGLVMFAYYQ EYPMSIQQAQ AAPDQFVLYF VMDLLKGLPG LPGLFIACLF</p> <p>SGSLSTISSA FNSLATVTME DLIRPWFPEF SEARAIMLSR GLAFGYGLLC LGMAYISSQM</p> <p>GPVLQAAISI FGMVGGPLL G LFCLGMFFPC ANPPGAVVGL LAGLVMAFWI GIGSIVTSMG</p> <p>SSMPPSPSNG SSFSLPTNLT VATVTTL MPL TTFSKPTGLQ RFYSLSYLWY SAHNSTTVIV</p> <p>VGLIVSLLTG RMRGRSLNPA TIYPVLPKLL SLLPLSCQKR LHCRSYGQDH LDTGLFPEKP</p> <p>RNGVLGDSRD KEAMALDGTA YQGSSTCIL QETSL Sequence without tag. The proposed</p>

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:

SLC5A6

Alternative Name:

SLC5A6 ([SLC5A6 Products](#))

Background:

Sodium-dependent multivitamin transporter (Na(+)-dependent multivitamin transporter) (hSMVT) (Solute carrier family 5 member 6), FUNCTION: Sodium-dependent multivitamin transporter that mediates the electrogenic transport of pantothenate, biotin, lipoate and iodide (PubMed:10329687, PubMed:15561972, PubMed:19211916, PubMed:21570947, PubMed:20980265, PubMed:22015582, PubMed:25971966, PubMed:25809983, PubMed:28052864, PubMed:27904971, PubMed:31754459). Functions as a Na(+)-coupled substrate symporter where the stoichiometry of Na(+):substrate is 2:1, creating an electrochemical Na(+) gradient used as driving force for substrate uptake (PubMed:10329687, PubMed:20980265). Required for biotin and pantothenate uptake in the intestine across the brush border membrane (PubMed:19211916). Plays a role in the maintenance of intestinal

Target Details

mucosa integrity, by providing the gut mucosa with biotin (By similarity). Contributes to the luminal uptake of biotin and pantothenate into the brain across the blood-brain barrier (PubMed:25809983). {ECO:0000250|UniProtKB:Q5U4D8, ECO:0000269|PubMed:10329687, ECO:0000269|PubMed:15561972, ECO:0000269|PubMed:19211916, ECO:0000269|PubMed:20980265, ECO:0000269|PubMed:21570947, ECO:0000269|PubMed:22015582, ECO:0000269|PubMed:25809983, ECO:0000269|PubMed:25971966, ECO:0000269|PubMed:27904971, ECO:0000269|PubMed:28052864, ECO:0000269|PubMed:31754459}.

Molecular Weight: 68.6 kDa

UniProt: [Q9Y289](#)

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