

Datasheet for ABIN7545924

SLC29A3 Protein (AA 1-475) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC29A3
Protein Characteristics:	AA 1-475
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC29A3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC29A3 Protein expressed in mammalian cells.
Sequence:	<p>MAVVSDDFQ HSSNSTYRTT SSSLRADQEA LLEKLLDRPP PGLQRPEDRF CGTYIIFSL</p> <p>GIGSLLPWNF FITAKEYWMF KLRNSSPAT GEDPEGSDIL NYFESYLAVA STVPSMLCLV</p> <p>ANFLLVNRVA VHIRVLASLT VILAIFMVIT ALVKVDTSSW TRGFFAVTIV CMVILSGAST</p> <p>VFSSSIYGMT GSFPMRNSQA LISGGAMGGT VSAVASLVDL AASSDVRNSA LAFFLTATVF</p> <p>LVLCMGLYLL LSRLEYARYY MRPVLAHVH SGEEELPQDS LSAPSVASRF IDSHTPPLRP</p> <p>ILKKTASLGF CVTYVFFITS LIYPAICTNI ESLNKGSGSL WTTKFFIPLT TFLLYNFADL</p> <p>CGRQLTAWIQ VPGPNSKALP GFVLLRTCLI PLFVLCNYQP RVHLKTVVFQ SDVYPALLSS</p> <p>LLGLSNGYLS TLALLYGPKI VPRELAEATG VMSFYVCLG LTLGSACSTL LVHLI Sequence</p> <p>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.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

SLC29A3

Alternative Name:

SLC29A3 ([SLC29A3 Products](#))

Background:

Equilibrative nucleoside transporter 3 (hENT3) (Solute carrier family 29 member 3),FUNCTION: Uniporter that mediates the facilitative transport of nucleoside across lysosomal and mitochondrial membranes (PubMed:15701636, PubMed:19164483, PubMed:20595384, PubMed:28729424). Functions as a non-electrogenic Na(+)-independent transporter (PubMed:15701636, PubMed:19164483, PubMed:28729424). Substrate transport is pH - dependent and enhanced under acidic condition, probably reflecting the location of the transporter in acidic intracellular compartments (PubMed:15701636, PubMed:19164483, PubMed:28729424). Proton is not a cotransporting ion but most likely change the ionization state of the transporter which dictates transport-permissible/impermissible conformation for nucleoside translocation (PubMed:28729424). May direct the nucleoside transport from lysosomes to cytosol or cytosol to mitochondria to facilitate the fundamental function of salvage synthesis of nucleic acids (PubMed:28729424). Involved in the transport of nucleosides

Target Details

(adenosine, guanosine, uridine, thymidine, cytidine and inosine) and deoxynucleosides (deoxyadenosine, deoxycytidine) (PubMed:15701636, PubMed:19164483, PubMed:20595384, PubMed:28729424). Also mediates transport of purine nucleobases (adenine, guanine) and pyrimidine nucleobases (uracil) (PubMed:15701636, PubMed:19164483). Also able to transport monoamine neurotransmitters dopamine, serotonin, noradrenaline and tyramine (PubMed:19164483). Capable of transporting ATP (PubMed:19164483). Mediates nucleoside export from lysosomes in macrophages, which regulates macrophage functions and numbers (By similarity). {ECO:0000250|UniProtKB:Q99P65, ECO:0000269|PubMed:15701636, ECO:0000269|PubMed:19164483, ECO:0000269|PubMed:20595384, ECO:0000269|PubMed:28729424}.

Molecular Weight: 51.8 kDa

UniProt: [Q9BZD2](#)

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