Datasheet for ABIN7555330

SLC29A4 Protein (AA 1-530) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC29A4
Protein Characteristics:	AA 1-530
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC29A4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC29A4 Protein expressed in mammalian cells.
Sequence:	MGSVGSQRLE EPSVAGTPDP GVVMSFTFDS HQLEEAAEAA QGQGLRARGV PAFTDTTLDE PVPDDRYHAI YFAMLLAGVG FLLPYNSFIT DVDYLHHKYP GTSIVFDMSL TYILVALAAV LLNNVLVERL TLHTRITAGY LLALGPLLFI SICDVWLQLF SRDQAYAINL AAVGTVAFGC TVQQSSFYGY TGMLPKRYTQ GVMTGESTAG VMISLSRILT KLLLPDERAS TLIFFLVSVA LELLCFLLHL LVRRSRFVLF YTTRPRDSHR GRPGLGRGYG YRVHHDVVAG DVHFEHPAPA LAPNESPKDS PAHEVTGSGG AYMRFDVPRP RVQRSWPTFR ALLLHRYVVA RVIWADMLSI AVTYFITLCL FPGLESEIRH CILGEWLPIL IMAVFNLSDF VGKILAALPV DWRGTHLLAC SCLRVVFIPL FILCVYPSGM PALRHPAWPC IFSLLMGISN GYFGSVPMIL AAGKVSPKQR ELAGNTMTVS YMSGLTLGSA VAYCTYSLTR DAHGSCLHAS TANGSILAGL **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.**

Product Details

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: • 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:	SLC29A4
Alternative Name:	SLC29A4 (SLC29A4 Products)
Background:	Equilibrative nucleoside transporter 4 (hENT4) (Plasma membrane monoamine transporter) (PMAT) (Solute carrier family 29 member 4),FUNCTION: Electrogenic voltage-dependent transporter that mediates the transport of a variety of endogenous bioactive amines, cationic xenobiotics and drugs (PubMed:15448143, PubMed:16099839, PubMed:16873718, PubMed:17018840, PubMed:17121826, PubMed:20592246, PubMed:20858707, PubMed:22396231, PubMed:31537831). Utilizes the physiologic inside-negative membrane potential as a driving force to facilitate cellular uptake of organic cations (PubMed:15448143, PubMed:20592246, PubMed:22396231). Functions as a Na(+)- and Cl(-)-independent bidirectional transporter (PubMed:15448143, PubMed:16099839, PubMed:22396231, PubMed:31537831). Substrate transport is pH -dependent and enhanced under acidic condition, which is most likely the result of allosteric changes in the transporter structure

Target Details

	(PubMed:16873718, PubMed:17018840, PubMed:20592246, PubMed:22396231, PubMed:31537831). Implicated in monoamine neurotransmitters uptake such as serotonin, dopamine, adrenaline/epinephrine, noradrenaline/norepinephrine, histamine and tyramine, thereby supporting a role in homeostatic regulation of aminergic neurotransmission in the central nervous system (PubMed:15448143, PubMed:16099839, PubMed:17018840, PubMed:17121826, PubMed:20858707, PubMed:22396231). Also responsible for the uptake of bioactive amines and drugs through the blood-cerebrospinal fluid (CSF) barrier, from the CSF into choroid plexus epithelial cells, thereby playing a significant role in the clearance of cationic neurotoxins, xenobiotics and metabolic waste in the brain (By similarity). Involved in bidirectional transport of the purine nucleoside adenosine and plays a role in the regulation of extracellular adenosine concentrations in cardiac tissues, in particular during ischemia (PubMed:16873718, PubMed:20592246, PubMed:31537831). May be involved in organic cation uptake from the tubular lumen into renal tubular cells, thereby contributing to organic cation reabsorption in the kidney (PubMed:17018840). Also transports guanidine (PubMed:16099839). {ECO:0000250|UniProtKB:Q8R139, ECO:0000269|PubMed:15448143, ECO:0000269|PubMed:16099839, ECO:0000269|PubMed:16873718, ECO:0000269|PubMed:17018840, ECO:0000269|PubMed:17121826, ECO:0000269|PubMed:20592246, ECO:0000269|PubMed:20858707, ECO:0000269|PubMed:22396231, ECO:0000269|PubMed:31537831}.
Molecular Weight:	58.1 kDa
UniProt:	Q7RTT9

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months