Datasheet for ABIN7564688

SLC29A4 Protein (AA 1-528) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC29A4
Protein Characteristics:	AA 1-528
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC29A4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slc29a4 Protein expressed in mammalien cells.
Sequence:	MGSIGSQRLK EPCVAATSDQ SVVTSFSFDN FQLETTAEGA QDPGIRVRGV PTFTDSAVEE PVPDDRYHAI YFAMLLAGVG FLLPYNSFIT DVDYLHHKYP GTSIVFDMSL TYILVALAAV LLNNVVVERL NLHTRITTGY LLALGPLLFI SICDVWLQLF SHDQAYAINL AAVGTVAFGC TVQQSSFYGY TGLLPKRYTQ GVMTGESTAG VMISLSRILT KLLLPDERAS TIIFFLVSAG LELLCFLLHL LVRRSRFVLY YTTRPRDSRP VQAGYRVHHD VASGDIHFEH QTPALSSSRS PKESPAHEVT HSNSGVYMRF DVPRPRVKRS WPTFRALLLH RYVVARVIWA DMLSIAVTYF ITLCLFPGLE SEIRHCVLGE WLPILVMAVF NLSDFVGKIL AALPVEWRGT HLLACSCLRV VFIPLFILCV YPSGMPALRH PAWPCVFSLL MGISNGYFGS VPMILAAGKV SPKQRELAGN TMTVSYMSGL TLGSAVAYCT YSLTRDAHGS CFQTATAAAA NDSIPVGP **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**

Product Details

	special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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:	SLC29A4
Alternative Name:	Slc29a4 (SLC29A4 Products)
Background:	Equilibrative nucleoside transporter 4 (mENT4) (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:16873718, PubMed:23255610). Utilizes the physiologic inside-negative membrane potential as a driving force to facilitate cellular uptake of organic cations (By similarity). Functions as a Na(+)- and Cl(-)-independent bidirectional transporter (By similarity). Substrate transport is pH -dependent and enhanced under acidic condition, which is most likely the result of allosteric changes in the transporter structure (PubMed:16873718). 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:23255610). Also responsible for the uptake of bioactive amines and

Target Details

	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 (PubMed:23255610). 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). 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:23255610). Also transports adenine and guanidine (PubMed:16873718). {ECO:0000250|UniProtKB:Q7RTT9, ECO:0000269|PubMed:16873718, ECO:0000269|PubMed:23255610}.
Molecular Weight:	58.1 kDa
UniProt:	Q8R139

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