Datasheet for ABIN7545943

SLC29A2 Protein (AA 1-456) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC29A2
Protein Characteristics:	AA 1-456
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC29A2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC29A2 Protein expressed in mammalien cells.
Sequence:	MARGDAPRDS YHLVGISFFI LGLGTLLPWN FFITAIPYFQ ARLAGAGNST ARILSTNHTG PEDAFNFNNW VTLLSQLPLL LFTLLNSFLY QCVPETVRIL GSLLAILLLF ALTAALVKVD MSPGPFFSIT MASVCFINSF SAVLQGSLFG QLGTMPSTYS TLFLSGQGLA GIFAALAMLL SMASGVDAET SALGYFITPC VGILMSIVCY LSLPHLKFAR YYLANKSSQA QAQELETKAE LLQSDENGIP SSPQKVALTL DLDLEKEPES EPDEPQKPGK PSVFTVFQKI WLTALCLVLV FTVTLSVFPA ITAMVTSSTS PGKWSQFFNP ICCFLLFNIM DWLGRSLTSY FLWPDEDSRL LPLLVCLRFL FVPLFMLCHV PQRSRLPILF PQDAYFITFM LLFAVSNGYL VSLTMCLAPR QVLPHEREVA GALMTFFLAL GLSCGASLSF LFKALL **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

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:	SLC29A2
Alternative Name:	SLC29A2 (SLC29A2 Products)
Background:	Equilibrative nucleoside transporter 2 (hENT2) (36 kDa nucleolar protein HNP36) (Delayed-early response protein 12) (Equilibrative nitrobenzylmercaptopurine riboside-insensitive nucleoside transporter) (Equilibrative NBMPR-insensitive nucleoside transporter) (Hydrophobic nucleolar protein, 36 kDa) (Nucleoside transporter, ei-type) (Solute carrier family 29 member 2),FUNCTION: Bidirectional uniporter involved in the facilitative transport of nucleosides and nucleobases, and contributes to maintaining their cellular homeostasis (PubMed:9396714, PubMed:9478986, PubMed:12527552, PubMed:10722669, PubMed:12590919, PubMed:21795683, PubMed:16214850). Functions as a Na(+)-independent, passive transporter (PubMed:9478986). Involved in the transport of nucleosides such as inosine, adenosine, uridine, thymidine, cytidine and guanosine (PubMed:9396714, PubMed:9478986, PubMed:12527552, PubMed:10722669, PubMed:12590919, PubMed:21795683, PubMed:16214850). Also able to transport purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases (thymine, uracil) (PubMed:21795683, PubMed:16214850). Involved in nucleoside transport at

Target Details

	basolateral membrane of kidney cells, allowing liver absorption of nucleoside metabolites (PubMed:12527552). Mediates apical nucleoside uptake into Sertoli cells, thereby regulating the transport of nucleosides in testis across the blood-testis-barrier (PubMed:23639800). Mediates both the influx and efflux of hypoxanthine in skeletal muscle microvascular endothelial cells to control the amount of intracellular hypoxanthine available for xanthine oxidase-mediated ROS production (By similarity). {ECO:0000250|UniProtKB:O54699, ECO:0000269|PubMed:10722669, ECO:0000269|PubMed:12527552, ECO:0000269|PubMed:12590919, ECO:0000269|PubMed:16214850, ECO:0000269|PubMed:21795683, ECO:0000269|PubMed:23639800, ECO:0000269|PubMed:9396714, ECO:0000269|PubMed:9478986}., FUNCTION: [Isoform 3]: Non functional nucleoside transporter protein for adenosine or thymidine transport. Does not express on cell membrane. {ECO:0000269|PubMed:12527552}.
Molecular Weight:	50.1 kDa
UniProt:	Q14542

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