Datasheet for ABIN7556251

SLC22A3 Protein (AA 1-551) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC22A3 (OCT3)
Protein Characteristics:	AA 1-551
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc22a3 Protein expressed in mammalian cells.
Sequence:	MPTFDQALRK AGEFGRFQRR VFLLLCLTGV TFAFLFVGVV FLGSQPDYYW CRGPRATALA ERCAWSPEEE WNLTTPELHV PAERRGQGHC HRYLLEATNT SSELSCDPLT AFPNRSAPLV SCSGDWRYVE THSTIVSQFD LVCSNAWMLD LTQAILNLGF LAGAFTLGYA ADRYGRLIIY LISCFGVGIT GVVVAFAPNF SVFVIFRFLQ GVFGKGAWMT CFVIVTEIVG SKQRRIVGIV IQMFFTLGII ILPGIAYFTP SWQGIQLAIS LPSFLFLLYY WVVPESPRWL ITRKQGEKAL QILRRVAKCN GKHLSSNYSE ITVTDEEVSN PSCLDLVRTP QMRKCTLILM FAWFTSAVVY QGLVMRLGLI GGNLYIDFFI SGLVELPGAL LILLTIERLG RRLPFAASNI VAGVSCLVTA FLPEGIPWLR TTVATLGRLG ITMAFEIVYL VNSELYPTTL RNFGVSLCSG LCDFGGIIAP FLLFRLAAIW LELPLIIFGI LASVCGGLVM LLPETKGIAL PETVEDVEKL GSSQLHQCGR KKKTQVSTSD V **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:	SLC22A3 (OCT3)
Alternative Name:	Slc22a3 (OCT3 Products)
Background:	Solute carrier family 22 member 3 (Organic cation transporter 3) (OCT3),FUNCTION: Electrogenic voltage-dependent transporter that mediates the transport of a variety of organic cations such as endogenous bioactive amines, cationic drugs and xenobiotics (PubMed:10966924, PubMed:18513366). Cation cellular uptake or release is driven by the electrochemical potential, i.e. membrane potential and concentration gradient (PubMed:10966924). Functions as a Na(+)- and Cl(-)-independent, bidirectional uniporter (By similarity). Implicated in monoamine neurotransmitters uptake such as dopamine, adrenaline/epinephrine, noradrenaline/norepinephrine, homovanillic acid, histamine, serotonin and tyramine, thereby supporting a role in homeostatic regulation of aminergic neurotransmission in the brain (PubMed:18513366, PubMed:19416912). Transports dopaminergic neuromodulators cyclo(his-pro) and salsolinol with low efficiency (By similarity).

Target Details

	May be involved in the uptake and disposition of cationic compounds by renal clearance from the blood flow (PubMed:10966924). May contribute to regulate the transport of cationic compounds in testis across the blood-testis-barrier (By similarity). Mediates the transport of polyamine spermidine and putrescine (By similarity). Mediates the bidirectional transport of polyamine agmatine (By similarity). Also transports guanidine (PubMed:10966924). May also mediate intracellular transport of organic cations, thereby playing a role in amine metabolism and intracellular signaling (PubMed:27659446). {ECO:0000250|UniProtKB:O75751, ECO:0000250|UniProtKB:O88446, ECO:0000269|PubMed:10966924, ECO:0000269|PubMed:18513366, ECO:0000269|PubMed:19416912, ECO:0000269|PubMed:27659446}.
Molecular Weight:	61.1 kDa
UniProt:	Q9WTW5

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