Datasheet for ABIN7556073

SLC7A6 Protein (AA 1-515) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC7A6
Protein Characteristics:	AA 1-515
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC7A6 Protein expressed in mammalian cells.
Sequence:	MEAREPGRPT PTYHLVPNTS QSQVEEDVSS PPQRSSETMQ LKKEISLLNG VSLVVGNMIG SGIFVSPKGV LVHTASYGMS LIVWAIGGLF SVVGALCYAE LGTTITKSGA SYAYILEAFG GFIAFIRLWV SLLVVEPTGQ AIIAITFANY IIQPSFPSCD PPYLACRLLA AACICLLTFV NCAYVKWGTR VQDTFTYAKV VALIAIIVMG LVKLCQGHSE HFQDAFEGSS WDMGNLSLAL YSALFSYSGW DTLNFVTEEI KNPERNLPLA IGISMPIVTL IYILTNVAYY TVLNISDVLS SDAVAVTFAD QTFGMFSWTI PIAVALSCFG GLNASIFASS RLFFVGSREG HLPDLLSMIH IERFTPIPAL LFNCTMALIY LIVEDVFQLI NYFSFSYWFF VGLSVVGQLY LRWKEPKRPR PLKLSVFFPI VFCICSVFLV IVPLFTDTIN SLIGIGIALS GVPFYFMGVY LPESRRPLFI RNVLAAITRG TQQLCFCVLT ELDVAEEKKD ERKTD **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.**
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:	SLC7A6
Alternative Name:	SLC7A6 (SLC7A6 Products)
Background:	Y+L amino acid transporter 2 (Cationic amino acid transporter, y+ system) (Solute carrier family 7 member 6) (y(+)L-type amino acid transporter 2) (Y+LAT2) (y+LAT-2),FUNCTION: Heterodimer with SLC3A2, that functions as an antiporter which operates as an efflux route by exporting cationic amino acids such as L-arginine from inside the cells in exchange with neutral amino acids like L-leucine, L-glutamine and isoleucine, plus sodium ions and may participate in nitric oxide synthesis (PubMed:9829974, PubMed:10903140, PubMed:16785209, PubMed:31705628, PubMed:15756301, PubMed:11311135, PubMed:17329401, PubMed:14603368, PubMed:19562367). Also exchanges L-arginine with L-lysine in a sodium-independent manner (PubMed:10903140). The transport mechanism is electroneutral and operates with a stoichiometry of 1:1 (PubMed:10903140). Contributes to ammonia-induced increase of L-arginine uptake in cerebral cortical astrocytes leading to ammonia-dependent increase of nitric oxide (NO) production via inducible nitric oxide synthase (iNOS) induction, and

Target Details

	protein nitration (By similarity). May mediate transport of ornithine in retinal pigment epithelial (RPE) cells (PubMed:17197568). May also transport glycine betaine in a sodium dependent manner from the cumulus granulosa into the enclosed oocyte (By similarity). {ECO:0000250|UniProtKB:D3ZMM8, ECO:0000250|UniProtKB:Q8BGK6, ECO:0000269|PubMed:10903140, ECO:0000269|PubMed:11311135, ECO:0000269|PubMed:14603368, ECO:0000269|PubMed:15756301, ECO:0000269|PubMed:16785209, ECO:0000269|PubMed:17197568, ECO:0000269|PubMed:17329401, ECO:0000269|PubMed:19562367, ECO:0000269|PubMed:31705628, ECO:0000269|PubMed:9829974}.
Molecular Weight:	56.8 kDa
UniProt:	Q92536

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