

Datasheet for ABIN7556061
SLC7A7 Protein (AA 1-511) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC7A7 (Slc7a7)
Protein Characteristics:	AA 1-511
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC7A7 Protein expressed in mammalian cells.
Sequence:	MVDSTEYEVA SQPEVETSPL GDGASPGPEQ VKLKKEISLL NGVCLIVGNM IGSGIFVSPK GVLIIYSASFG LSLVIWAVGG LFSVFGALCY AELGTTIKKS GASAYILEA FGGFLAFIRL WTSLIIIEPT SQAIIITFA NYMVQPLFPS CFAPYAASRL LAAACICLLT FINCAYVKWG TLVQDIFTYA KVLALIAVIV AGIVRLGQGA STHFENSFEG SSFAVGDIAL ALYSALFSYS GWDTLNIVTE EIKNPERNLP LSIGISMPIV TIIYILTIVA YYTVLDMRDI LASDAVAVTF ADQIFGIFNW IIPLSVALSC FGGLNASIVA ASRLFFVGSR EGHLPDAICM IHVERFTPVP SLLFNGIMAL IYLCVEDIFQ LINYYSFSYW FFVGLSIVGQ LYLRWKEPDR PRPLKLSVFF PIVFLCTIF LVAVPLYSDT INSLIGIAIA LSGLPFYFLI IRVPEHKRPL YLRRIVGSAT RYLQVLCMSV AAEMDLEDGG EMPKQRDPKS N 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:

SLC7A7 (Slc7a7)

Alternative Name:

SLC7A7 ([Slc7a7 Products](#))

Background:

Y+L amino acid transporter 1 (Monocyte amino acid permease 2) (MOP-2) (Solute carrier family 7 member 7) (y(+)-L-type amino acid transporter 1) (Y+LAT1) (y+LAT-1),FUNCTION: Heterodimer with SLC3A2, that functions as an antiporter which operates as an efflux route by exporting cationic amino acids from inside the cells in exchange with neutral amino acids plus sodium ions and may participate in nitric oxide synthesis via the transport of L-arginine (PubMed:9878049, PubMed:9829974, PubMed:17329401, PubMed:10080182, PubMed:10655553, PubMed:15756301, PubMed:15776427, PubMed:14603368). Also mediates arginine transport in non-polarized cells, such as monocytes, and is essential for the correct function of these cells (PubMed:15280038, PubMed:31705628). The transport mechanism is electroneutral and operates with a stoichiometry of 1:1 (By similarity). In vitro, Na(+) and Li(+), but also H(+), are cotransported with the neutral amino acids (By similarity). {ECO:0000250|UniProtKB:Q9R0S5, ECO:0000269|PubMed:10080182,

Target Details

ECO:0000269|PubMed:10655553, ECO:0000269|PubMed:14603368,
ECO:0000269|PubMed:15280038, ECO:0000269|PubMed:15756301,
ECO:0000269|PubMed:15776427, ECO:0000269|PubMed:17329401,
ECO:0000269|PubMed:31705628, ECO:0000269|PubMed:9829974,
ECO:0000269|PubMed:9878049}.

Molecular Weight: 56.0 kDa

UniProt: [Q9UM01](#)

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