

Datasheet for ABIN7552605
SLC7A9 Protein (AA 1-487) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC7A9
Protein Characteristics:	AA 1-487
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC7A9 Protein expressed in mammalien cells.
Sequence:	<p>MGDTGLRKRR EDEKSIQSQE PKTTSLQKEL GLISGISIIV GTIIGSGIFV SPKSVLSNTE AVGPCLIIWA ACGVLATLGA LCFAELGTMI TKSGGEYPYL MEAYGPIPAY LFSWASLIVI KPTSFAIICL SFSEYVCAPF YVGCKPPQIV VKCLAAAAIL FISTVNSLSV RLGSYVQNIF TAAKLVIVAI IISGLVLLA QGNTKNFDNS FEGAQLSVGA ISLAFYINGLW AYDGWNQLNY ITEELRNPYR NLPLAIIIGI PLVTACYILM NVSYFTVMTA TELLQSQAVA VTFGDRVLYP ASWIVPLFVA FSTIGAANGT CFTAGRLIYV AGREGHMLKV LSYISVRRLT PAPAIIIFYGI IATIIYIPGD INSLVNYFSF AAWLFYGLTI LGLIVMRFRTR KELERPIKVP WVIPVLMTLI SVFLVLAPII SKPTWEYLYC VLFILSGLLF YFLFVHYKFG WAQKISKPIT MHLQMLMEVV PPEEDPE 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.</p>

Product Details

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, Western Blot

Grade:

custom-made

Target Details

Target:

SLC7A9

Alternative Name:

SLC7A9 ([SLC7A9 Products](#))

Background:

B(0,+)-type amino acid transporter 1 (b(0,+)-AT1) (Glycoprotein-associated amino acid transporter b(0,+)-AT1) (Solute carrier family 7 member 9),FUNCTION: Associates with SLC3A1 to form a functional transporter complex that mediates the electrogenic exchange between cationic amino acids and neutral amino acids, with a stoichiometry of 1:1 (PubMed:8663357, PubMed:16825196, PubMed:32817565, PubMed:32494597). Has system b(0,+)-like activity with high affinity for extracellular cationic amino acids and L-cystine and lower affinity for intracellular neutral amino acids (PubMed:8663357, PubMed:16825196, PubMed:32494597). Substrate exchange is driven by high concentration of intracellular neutral amino acids and the intracellular reduction of L-cystine to L-cysteine (PubMed:8663357). Required for reabsorption of L-cystine and dibasic amino acids across the brush border membrane in renal proximal tubules. {ECO:0000269|PubMed:10471498, ECO:0000269|PubMed:10588648, ECO:0000269|PubMed:16609684, ECO:0000269|PubMed:16825196, ECO:0000269|PubMed:32494597, ECO:0000269|PubMed:32817565,

Target Details

ECO:0000269|PubMed:8663357}.

Molecular Weight: 53.5 kDa

UniProt: [P82251](#)

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