

Datasheet for ABIN7554763

SLC11A2 Protein (AA 1-568) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC11A2
Protein Characteristics:	AA 1-568
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC11A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC11A2 Protein expressed in mammalian cells.
Sequence:	<p>MVLGPEQKMS DDSVSGDHGE SASLGNINPA YSNPSLSQSP GDSEEFATY FNEKISIPPEE EYSCFSFRKL WAFTGPGFLM SIAYLDPGNI ESDLQSGAVA GFKLLWILL ATLVLGILLQR LAARLGVVTG LHAEVCHRQ YPKVPRVILW LMVELAIIGS DMQEVIGSAI AINLLSVGRI PLWGGVLITI ADTFVFLFD KYGLRKLEAF FGFLITIMAL TFGYEVTVK PSQSQVLKGM FVPSCSGCRT PQIEQAVGIV GAVIMPHNMY LHSALVKSRQ VNRNNKQEV EANKYFFIES CIALFVSFII NVFVVSFAE AFFGKTNEQV VEVCTNTSSP HAGLFPKDNS TLAVDIYKGG VVLGCYFGPA ALYIWAVGIL AAGQSSTMTG TYSGQFVMEG FLNLKWSRFA RVVLTRSAI IPTLLVAVFQ DVEHLTGMD FLNLVQLSLQ PFALIPILTF TSLRPVMSDF ANGLGWRIAG GILVLIICSI NMYFVVVVYR DLGHVALYV AAVSVAYLG FVFYLGWQCL IALGMSFLDC GHTCHLGLTA QPELYLLNTM DADSLVSR</p> <p>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</p>

contact us.

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: SLC11A2

Alternative Name: SLC11A2 ([SLC11A2 Products](#))

Background: Natural resistance-associated macrophage protein 2 (NRAMP 2) (Divalent cation transporter 1) (Divalent metal transporter 1) (DMT-1) (Solute carrier family 11 member 2),FUNCTION: Proton-coupled metal ion symporter operating with a proton to metal ion stoichiometry of 1:1 (PubMed:17109629, PubMed:22736759, PubMed:25491917, PubMed:17293870, PubMed:25326704). Selectively transports various divalent metal cations, in decreasing affinity: Cd(2+) > Fe(2+) > Co(2+), Mn(2+) >> Zn(2+), Ni(2+), VO(2+) (PubMed:17109629, PubMed:22736759, PubMed:25491917, PubMed:17293870, PubMed:25326704). Essential for maintenance of iron homeostasis by modulating intestinal absorption of dietary Fe(2+) and TF-associated endosomal Fe(2+) transport in erythroid precursors and other cells (By similarity). Enables Fe(2+) and Mn(2+) ion entry into mitochondria, and is thus expected to promote

Target Details

mitochondrial heme synthesis, iron-sulfur cluster biogenesis and antioxidant defense (PubMed:24448823) (By similarity). Can mediate uncoupled fluxes of either protons or metal ions. {ECO:0000250|UniProtKB:O54902, ECO:0000250|UniProtKB:P49282, ECO:0000269|PubMed:17109629, ECO:0000269|PubMed:17293870, ECO:0000269|PubMed:22736759, ECO:0000269|PubMed:24448823, ECO:0000269|PubMed:25326704, ECO:0000269|PubMed:25491917}.

Molecular Weight:	62.3 kDa
UniProt:	P49281
Pathways:	Transition Metal Ion Homeostasis , Proton Transport , Positive Regulation of Endopeptidase Activity

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