

Datasheet for ABIN7554750
SLC11A1 Protein (AA 1-550) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC11A1
Protein Characteristics:	AA 1-550
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC11A1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC11A1 Protein expressed in mammalien cells.
Sequence:	MTGDKGPQRL SGSSYGSISS PTSPTSPGPQ QAPPRETYLS EKIPIDTKP GTFSLRKLWA FTGPGFLMSI AFLDPGNIES DLQAGAVAGF KLLWVLLWAT VLGLLCQRLA ARLGVVTGKD LGEVCHLYYP KVPRTLWLT IELAIVGSDM QEVIGTIAIF NLLSAGRIPL WGGVLITIVD TFFFLFDNY GLRKLEAFFG LLITIMALTF GYEYVVARPE QGALLRGLFL PSCPGCGHPE LLQAVGIVGA IIMPHNIYLH SALVKSREID RARRADIREA NMYFLIEATI ALSVSFIINL FVMAVFGQAF YQKTNQAAFN ICANSSLHDY AKIFPMNNAT VAVDIYQGGV ILGCLFGPAA LYIWAIGLLA AGQSSTMTGT YAGQFVMEGF LRLRWSRFAR VLLTRSCAIL PTVLVAVFRD LRDLSGLNDL LNVLQSLLLP FAVLPILTFT SMPTLMQEFA NGLLNKVVTS SIMVLVCAIN LYFVVSYLPS LPHPAYFGLA ALLAAAYLGL STYLVWTCCL AHGATFLAHS SHHHFLYGLL EEDQKGETSG Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make

Product Details

another tag necessary. In case you have a special request, please contact us.

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:

SLC11A1

Alternative Name:

SLC11A1 ([SLC11A1 Products](#))

Background:

Natural resistance-associated macrophage protein 1 (NRAMP 1) (Solute carrier family 11 member 1),FUNCTION: Macrophage-specific antiporter that fluxes metal ions in either direction against a proton gradient. Localized to late endosomal lysosomal membranes, delivers bivalent cations from the cytosol into these acidic compartments where they may directly affect antimicrobial activity (PubMed:11237855). Involved in iron metabolism and host natural resistance to infection with intracellular parasites. Pathogen resistance involves sequestration of Fe(2+) and Mn(2+), cofactors of both prokaryotic and eukaryotic catalases and superoxide dismutases, not only to protect the macrophage against its own generation of reactive oxygen species, but to deny the cations to the pathogen for synthesis of its protective enzymes (Probable). {ECO:0000269|PubMed:11237855, ECO:0000305|PubMed:16103355, ECO:0000305|PubMed:16395392}.

Molecular Weight:

59.9 kDa

Target Details

UniProt:	P49279
Pathways:	Transition Metal Ion Homeostasis , Production of Molecular Mediator of Immune Response , Protein targeting to Nucleus

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