

Datasheet for ABIN7551653

SLC40A1 Protein (AA 1-571) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC40A1
Protein Characteristics:	AA 1-571
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC40A1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC40A1 Protein expressed in mammalian cells.
Sequence:	<p>MTRAGDHNQRQ RGCCGSLADY LTSAKFLLYL GHSLSTWGDR MWHFAVSVFL VELYGNSLLL</p> <p>TAVYGLVVAG SVLVLGAIIG DWVDKNARLK VAQTSLVVQN VSVILCGIIL MMVFLHKHEL</p> <p>LTMYHGWVLT SCYILIITIA NIANLASTAT AITQRDWIV VVAGEDRSKL ANMNATIRRI</p> <p>DQLTNILAPM AVGQIMTFGS PVIGCGFISG WNLVSMCVEY VLLWKVYQKT PALAVKAGLK</p> <p>EEETELKQLN LHKDTEPKPL EGTMLMGVKD SNIHELEHEQ EPTCASQMAE PFRTFRDQWV</p> <p>SYYNQPVFLA GMGLAFLYMT VLGFDCTTGG YAYTQGLSGS ILSILMGASA ITGIMGTVAF</p> <p>TWLRRKCGLV RTGLISGLAQ LSCLILCVIS VFMPGSPDL SVSPFEDIRS RFIQGESITP TKIPEITTEI</p> <p>YMSNGSNSAN IVPETSPESV PIISVSLFAG VIAARIGLW SFDLTVTQLL QENVIESERG</p> <p>IINGVQNSMN YLLDLLHFIM VILAPNPEAF GLLVLISVSF VAMGHIMYFR FAQNTLGKGL</p> <p>FACGPDAKEV RKENQANTSV V Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein</p>

could make 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:

SLC40A1

Alternative Name:

SLC40A1 ([SLC40A1 Products](#))

Background:

Solute carrier family 40 member 1 (Ferroportin-1) (Iron-regulated transporter 1),FUNCTION: Transports Fe(2+) from the inside of a cell to the outside of the cell, playing a key role for maintaining systemic iron homeostasis (PubMed:15692071, PubMed:24304836, PubMed:22178646, PubMed:29599243, PubMed:30247984, PubMed:22682227, PubMed:29237594). Transports iron from intestinal, splenic, hepatic cells, macrophages and erythrocytes into the blood to provide iron to other tissues (By similarity). Controls therefore dietary iron uptake, iron recycling by macrophages and erythrocytes, and release of iron stores in hepatocytes (By similarity). When iron is in excess in serum, circulating HAMP/hepcidin levels increase resulting in a degradation of SLC40A1, thus limiting the iron efflux to plasma (PubMed:22682227, PubMed:29237594, PubMed:32814342). {ECO:0000250|UniProtKB:Q9JHI9, ECO:0000269|PubMed:15692071, ECO:0000269|PubMed:22178646, ECO:0000269|PubMed:22682227,

Target Details

	ECO:0000269 PubMed:24304836, ECO:0000269 PubMed:29237594, ECO:0000269 PubMed:29599243, ECO:0000269 PubMed:30247984, ECO:0000269 PubMed:32814342}.
Molecular Weight:	62.5 kDa
UniProt:	Q9NP59
Pathways:	Transition Metal Ion Homeostasis

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