

Datasheet for ABIN7545417

SLC30A10 Protein (AA 1-485) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC30A10
Protein Characteristics:	AA 1-485
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC30A10 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC30A10 Protein expressed in mammalian cells.
Sequence:	<p>MGRYSGKTCR LLFMLVLTVA FFVAELVSGY LGNSIALLSDFNMLSDLIS LCVGLSAGYI</p> <p>ARRPTRGFSA TYGYARAEVV GALSNAVFLT ALCFTIFVEA VLRLARPERI DDPELVLVIG</p> <p>VLGLLVNVVG LLIFQDCAAW FACCLRGRSR RLQQRQQLAE GCVPGAFGGP QGAEDPRRAA</p> <p>DPTAPGSDSA VTLRGTSVER KREKGVTVFA NVAGDSFNTQ NEPEDMMKKE KKSEALNIRG</p> <p>VLLHVMGDAL GSVVVVITAI IFYVLPLKSE DPCNWQCYID PSLTVLMVII ILSSAFPLIK</p> <p>ETAAILLQMV PKGVNMEELM SKLSAVPGIS SVHEVHIWEL VSGKIIATLH IKYPKDRGYQ</p> <p>DASTKIREIF HHAGIHNVTI QFENVDLKEP LEQKDLLLLC NSPCISKGCA KQLCCPPGAL</p> <p>PLAHVNGCAE HNGGPSLDY GSDGLSRRDA REVAIEVSLD SCLSDHGQSL NKTQEDQCYV</p> <p>NRTHF 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:

SLC30A10

Alternative Name:

SLC30A10 ([SLC30A10 Products](#))

Background:

Calcium/manganese antiporter SLC30A10 (Solute carrier family 30 member 10) (Zinc transporter 10) (ZnT-10), FUNCTION: Calcium:manganese antiporter of the plasma membrane mediating the efflux of intracellular manganese coupled to an active extracellular calcium exchange (PubMed:30755481). Required for intracellular manganese homeostasis, an essential cation for the function of several enzymes, including some crucially important for the metabolism of neurotransmitters and other neuronal metabolic pathways. Manganese can also be cytotoxic and induce oxidative stress, mitochondrial dysfunction and apoptosis (PubMed:22341972, PubMed:25319704, PubMed:27226609, PubMed:27307044, PubMed:26728129). Could also have an intracellular zinc ion transporter activity, directly regulating intracellular zinc ion homeostasis and more indirectly various signaling pathway and biological processes (PubMed:22427991, PubMed:26728129).
{ECO:0000269|PubMed:22341972, ECO:0000269|PubMed:22427991, ECO:0000269|PubMed:25319704, ECO:0000269|PubMed:26728129,

Target Details

	ECO:0000269 PubMed:27226609, ECO:0000269 PubMed:27307044, ECO:0000269 PubMed:30755481}.
Molecular Weight:	52.7 kDa
UniProt:	Q6XR72

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