Datasheet for ABIN7545839
SLC30A1 Protein (AA 1-507) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC30A1
Protein Characteristics:	AA 1-507
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC30A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC30A1 Protein expressed in mammalien cells.
Sequence:	MGCWGRNRGR LLCMLALTFM FMVLEVVVSR VTSSLAMLSD SFHMLSDVLA LVVALVAERF ARRTHATQKN TFGWIRAEVM GALVNAIFLT GLCFAILLEA IERFIEPHEM QQPLVVLGVG VAGLLVNVLG LCLFHHHSGF SQDSGHGHSH GGHGHGHGLP KGPRVKSTRP GSSDINVAPG EQGPDQEETN TLVANTSNSN GLKLDPADPE NPRSGDTVEV QVNGNLVREP DHMELEEDRA GQLNMRGVFL HVLGDALGSV IVVVNALVFY FSWKGCSEGD FCVNPCFPDP CKAFVEIINS THASVYEAGP CWVLYLDPTL CVVMVCILLY TTYPLLKESA LILLQTVPKQ IDIRNLIKEL RNVEGVEEVH ELHVWQLAGS RIIATAHIKC EDPTSYMEVA KTIKDVFHNH GIHATTIQPE FASVGSKSSV VPCELACRTQ CALKQCCGTL PQAPSGKDAE KTPAVSISCL ELSNNLEKKP RRTKAENIPA VVIEIKNMPN KQPESSL **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.**

Product Details

Characteristics:	Key Benefits:
	• Made to order protein - from design to production - by highly experienced protein experts.
	• Protein expressed in mammalien 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:	SLC30A1
Alternative Name:	SLC30A1 (SLC30A1 Products)
Background:	Proton-coupled zinc antiporter SLC30A1 (Solute carrier family 30 member 1) (Zinc transporter 1),FUNCTION: Zinc ion:proton antiporter that could function at the plasma membrane mediating zinc efflux from cells against its electrochemical gradient protecting them from intracellular zinc accumulation and toxicity (PubMed:31471319). Alternatively, could prevent the transport to the plasma membrane of CACNB2, the L-type calcium channels regulatory subunit, through a yet to be defined mechanism. By modulating the expression of these channels at the plasma membrane, could prevent calcium and zinc influx into cells. By the same mechanism, could also prevent L-type calcium channels-mediated heavy metal influx into cells (By similarity). In some cells, could also function as a zinc ion:proton antiporter mediating zinc entry into the lumen of cytoplasmic vesicles. In macrophages, can increase zinc ions concentration into the lumen of cytoplasmic vesicles containing engulfed bacteria and could help inactivate them (PubMed:32441444). {ECO:0000250|UniProtKB:Q62720, ECO:0000269|PubMed:31471319, ECO:0000269|PubMed:32441444}.

Target Details

Molecular Weight:	55.3 kDa
UniProt:	Q9Y6M5
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