

Datasheet for ABIN7545903  
**SLC39A7 Protein (AA 1-469) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC39A7
Protein Characteristics:	AA 1-469
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC39A7 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SLC39A7 Protein expressed in mammalian cells.
Sequence:	MARGLGAPHW VAVGLLTWAT LGLLVAGLGG HDDLHDDLQE DFHGHSHRHS HEDFHHGHSH AHGHGHSTHES IWHGHSTHDHD HGSHEDLHH GSHGYSSES LYHRGHGHDH ESHGGYGES GAPGIKQDLD AVTLWAYALG ATVLISAAPF FVLFLIPVES NSPRHRSLQ ILLSFASGGL LGDAFLHLIP HALEPHSHT LEQPGHGHSH SGQGPILSVG LWVLSGIVAF LVVEKFVRHV KGGHGHSHGH GHAHSHTRGS HGHRQERST KEKQSSEEEE KETRGVQKRR GGSTVPKDG VRPQNAEEEEK RGLDLRVSGY LNLAADLAHN FTDGLAIGAS FRGGRGLGIL TTMTVLLHEV PHEVGDFAIL VQSGCSKKQA MRLQLLTAVG ALAGTACALL TEGGAVGSEI AGGAGPGWVL PFTAGGFIYV ATVSVLPELL REASPLQSLLEVLGLLGGVI MMVLIAHLE <b>Sequence without tag.</b> <b>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.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

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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

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### Target:

SLC39A7

### Alternative Name:

SLC39A7 ([SLC39A7 Products](#))

### Background:

Zinc transporter SLC39A7 (Histidine-rich membrane protein Ke4) (Really interesting new gene 5 protein) (Solute carrier family 39 member 7) (Zrt-, Irt-like protein 7) (ZIP7),FUNCTION: Transports Zn(2+) from the endoplasmic reticulum (ER)/Golgi apparatus to the cytosol, playing an essential role in the regulation of cytosolic zinc levels (PubMed:14525538, PubMed:15705588, PubMed:29980658, PubMed:28205653). Acts as a gatekeeper of zinc release from intracellular stores, requiring post-translational activation by phosphorylation, resulting in activation of multiple downstream pathways leading to cell growth and proliferation (PubMed:29980658, PubMed:22317921, PubMed:28205653). Has an essential role in B cell development and is required for proper B cell receptor signaling (PubMed:30718914). Plays an important role in maintaining intestinal epithelial homeostasis and skin dermis development by regulating ER function (By similarity). Controls cell signaling pathways involved in glucose metabolism in skeletal muscle (By similarity). Has a protective role against ER stress in

## Target Details

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different biological contexts (PubMed:29980658, PubMed:30237509). Mediates Zn(2+)-induced ferroptosis (PubMed:33608508). {ECO:0000250|UniProtKB:Q31125, ECO:0000269|PubMed:14525538, ECO:0000269|PubMed:15705588, ECO:0000269|PubMed:22317921, ECO:0000269|PubMed:28205653, ECO:0000269|PubMed:29980658, ECO:0000269|PubMed:30237509, ECO:0000269|PubMed:30718914, ECO:0000269|PubMed:33608508}.

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Molecular Weight: 50.1 kDa

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UniProt: [Q92504](#)

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Pathways: [Transition Metal Ion Homeostasis](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months