

Datasheet for ABIN7557018
SLC39A7 Protein (AA 1-476) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC39A7
Protein Characteristics:	AA 1-476
Origin:	Mouse
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:	MTMGLRAPHW VAVGLLTWAA LGLLVAGHEG HGD LHKDVEE DFHGHSHGHS HEDFHHGHSH GSHSHDFHHG HGHTHESIWH GHAHSHDHGH SREELHHGHS HGHSHDSLHH GGHGHAHREH SHGTSREAGA PGIKHHLDTV TLWAYALGAT VLISAAPFFV LFLIPVESNS PRHRSLQIL LSFASGGLLG DAFLHLIPHA LEPHSHHAPE QPGHGHSHSG QGPILSVGLW VLSGIVAFLV VEKFVRHVKG GHGSHGHGD RHAHGDSHTH GDRHECSSKE KPSTEEKEV GGLRKRRGGN TGPRDGPVKP QSPEEEKAGS DLRVSGYLNL AADLAHNFTD GLAIGASFRG GRGLGILTTM TVLLHEVPHE VGDFAILVQS GCSKKQAMRL QLVTAIGALA GTACALLTEG GAVDSDVAGG AGPGWVLPFT AGGFIYVATV SVLPELLREA SPLQSLLEVL GLLGGVAMMV LIAHLE 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

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

Target:

SLC39A7

Alternative Name:

Slc39a7 ([SLC39A7 Products](#))

Background:

Zinc transporter SLC39A7 (Histidine-rich membrane protein Ke4) (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:15705588). 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 (By similarity). 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 (PubMed:28545780, PubMed:27736879). Controls cell signaling pathways involved in glucose metabolism in skeletal muscle (PubMed:31266232). Has a protective role against ER stress in different biological contexts (PubMed:31266232). Mediates Zn(2+)-induced ferroptosis (By similarity).

Target Details

{ECO:0000250|UniProtKB:Q92504, ECO:0000269|PubMed:15705588,
ECO:0000269|PubMed:27736879, ECO:0000269|PubMed:28545780,
ECO:0000269|PubMed:30718914, ECO:0000269|PubMed:31266232}.

Molecular Weight: 50.7 kDa

UniProt: [Q31125](#)

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

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.

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