

Datasheet for ABIN7551718

SLC39A9 Protein (AA 1-307) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC39A9
Protein Characteristics:	AA 1-307
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC39A9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC39A9 Protein expressed in mammalian cells.
Sequence:	<p>MDDFISISLL SLAMLVGCYV AGIIPAVNF SEERLKLTV LGAGLLCGTA LAVIVPEGVH</p> <p>ALYEDILEGK HHQASETHNV IASDKAAEKS VVHEHEHSHD HTQLHAYIGV SLVLGFVFM</p> <p>LVDQIGNSHV HSTDDPEAAR SSNSKITTTL GLVVHAAADG VALGAAASTS QTSVQLIVFV</p> <p>AIMLHKAPAA FGLVSFLMHA GLERNRIRKH LLVFALAAPV MSMVTYLGLS KSSKEALSEV</p> <p>NATGVAMLFS AGTFLYVATV HVLPEVGGIG HSHKPDATGG RGLSRLEVAA LVLGCLIPLI</p> <p>LSVGHQH 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>

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> Made to order protein - from design to production - by highly experienced protein experts.
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Product Details

- 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:	SLC39A9
Alternative Name:	SLC39A9 (SLC39A9 Products)
Background:	<p>Zinc transporter ZIP9 (Solute carrier family 39 member 9) (Zrt- and Irt-like protein 9) (ZIP-9),FUNCTION: Transports zinc ions across cell and organelle membranes into the cytoplasm and regulates intracellular zinc homeostasis (PubMed:25014355, PubMed:19420709, PubMed:28219737). Participates in the zinc ions efflux out of the secretory compartments (PubMed:19420709). Regulates intracellular zinc level, resulting in the enhancement of AKT1 and MAPK3/MAPK1 (Erk1/2) phosphorylation in response to the BCR activation (PubMed:23505453). Also functions as a membrane androgen receptor that mediates, through a G protein, the non-classical androgen signaling pathway, characterized by the activation of MAPK3/MAPK1 (Erk1/2) and transcription factors CREB1 or ATF1 (By similarity). This pathway contributes to CLDN1 and CLDN5 expression and tight junction formation between adjacent Sertoli cells (By similarity). Mediates androgen-induced vascular endothelial cell proliferation through activation of an inhibitory G protein leading to the AKT1 and MAPK3/MAPK1 (Erk1/2) activation which in turn modulate inhibition (phosphorylation) of GSK3B and CCND1 transcription (PubMed:34555425). Moreover, has dual functions as a membrane-bound androgen receptor and as an androgen-dependent zinc transporter both of which are mediated</p>

Target Details

through an inhibitory G protein (Gi) that mediates both MAP kinase and zinc signaling leading to the androgen-dependent apoptotic process (PubMed:25014355, PubMed:28219737).
{ECO:0000250|UniProtKB:Q3KR82, ECO:0000250|UniProtKB:Q8BFU1,
ECO:0000269|PubMed:19420709, ECO:0000269|PubMed:23505453,
ECO:0000269|PubMed:25014355, ECO:0000269|PubMed:28219737,
ECO:0000269|PubMed:34555425}.

Molecular Weight: 32.3 kDa

UniProt: [Q9NUM3](#)

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