

Datasheet for ABIN7559028
SLC9A9 Protein (AA 1-644) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC9A9
Protein Characteristics:	AA 1-644
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A9 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slc9a9 Protein expressed in mammalien cells.
Sequence:	<p>MAGQLRFTSG KDEDHFQHQG AVELLAFNFL LILTILTIWL FKNHRFRFLH ETGGAMVYGL IMGLILRYAT APTDIDSGTV YNCGNLFFSP STLLVNITDQ VYHEYKYQREI NQHNISPHQG NAILEKMTFD PEIFFNVLLP PIIFHAGYSL KKRHFFQNLG SILTYAFLGT AISCWVIGLI MYGFVKAMVH AGQLKSGDFH FTDCLFFGSL MSATDPVTVL AIFHELHVDP DLYTLLFGES VLNDAVAIVL TYSISYSPK ENPNAFDATA FFQSVGNFLG IFAGSFAMGS AYAVVTALLT KFTKLRFFPM LETGLFFLLS WSAFLSAEAA GLTGIVAVLF CGVTQAHYTY NNLSSDSKLR TKQLFEFMNF LAENVIFCYM GLALFTFQNH IFNALFILGA FLAIFVARAC NIYPLSFLN LGRKQKIPWN FQHMMMFSGL RGAIAFALAI RNTESQPKQM MFTTTLLLVF FTWVWVGGGT TPMLTWLQIR VGVLDLDESLK EEPSSQQEAN KLDKNMTKTE SAQLFRMWYG FDHKYLPIL THSGPPLTTT LPAWCGPVSR LLTSPQAYGE QLKEDDVECI VNQDELAMNY QEQSPSPSSP TTKLALDQKS SGQTPGKENI YEGDLGLGGY DLKLEQTRGQ PQMD Sequence without tag. The</p>

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.

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:

SLC9A9

Alternative Name:

Slc9a9 ([SLC9A9 Products](#))

Background:

Sodium/hydrogen exchanger 9 (Na⁺)/H⁺ exchanger 9) (NHE-9) (Solute carrier family 9 member 9),FUNCTION: Endosomal Na⁺, K⁺/H⁺ antiporter. Mediates the electroneutral exchange of endosomal luminal H⁺ for a cytosolic Na⁺ or K⁺ (PubMed:17005858). By facilitating proton efflux, SLC9A9 counteracts the acidity generated by vacuolar (V)-ATPase, thereby limiting luminal acidification. Regulates organellar pH and consequently, endosome maturation and endocytic trafficking of plasma membrane receptors and neurotransmitters (PubMed:29362376, PubMed:24065030). Promotes the recycling of transferrin receptors back to the cell surface to facilitate additional iron uptake in the brain (By similarity). Regulates synaptic transmission by regulating the luminal pH of axonal endosomes (PubMed:29362376). Regulates phagosome luminal pH, thus affecting phagosome maturation, and consequently,

Target Details

microbicidal activity in macrophages (PubMed:35716776). Can also be active at the cell surface of specialized cells, e.g., in the inner ear hair bundles uses the high K(+) of the endolymph to regulate intracellular pH (PubMed:17005858). {ECO:0000250|UniProtKB:Q8IVB4, ECO:0000269|PubMed:17005858, ECO:0000269|PubMed:24065030, ECO:0000269|PubMed:29362376, ECO:0000269|PubMed:35716776}.

Molecular Weight: 72.1 kDa

UniProt: [Q8BZ00](#)

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