

Datasheet for ABIN7564431

SLC9A4 Protein (AA 1-797) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC9A4
Protein Characteristics:	AA 1-797
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slc9a4 Protein expressed in mammalian cells.
Sequence:	<p>MGPAMFMAFR LWNWLLLLAV LTRSEATSYV NESSNPTAQQ APDARFAASS SDPDEGISVF</p> <p>ELDYDYVQIP YEVTWLWILLA SLAKIGFHLV HRLPHLMPES CLLIIVGALV GGIIFGTHHK</p> <p>SPPVMDSSIV FLYLLPPIVL ESGYFMPTRP FFENIGSILW WAGLGALINA FGIGLSLYFI</p> <p>CQIKAFGLGD INLLHNLLFG SLISAVDPVA VLAVFEEARV NEQLYMMIFG EALLNDGISV</p> <p>VLYNILIAFT KMHKFEDIEA VDILAGCARF VIVGCGGVFF GIIFGFISAF ITRFTQNISA IEPLIVFMFS</p> <p>YLSYLAAETL YLSGILAITA CAVTMKKYVE ENVSQTSYTT IKYFMKMLSS VSETLIFIFM</p> <p>GVSTIGKNHE WNWAFICFTL LFCQIWRAIS VFTLFYVSNQ FRTFPFSIKD QFIIFYSGVR</p> <p>GAGSFSLAFL LPLSLFPRKK LFTVATLVVT YFTVFFQGIT IGPLVRYLDV RKTNNKESIN</p> <p>EELHSRLMDH LKAGIEDVCG QWSHYQVRDK FKKFDHRYLR KILIRRNLPK SSIVSLYKKL</p> <p>EMKQAIEMVE TGILSSVASP TPYQSERIQG IKRLSPEDVE SMRDILTRSM YQVRQRTLSY</p> <p>NKYNLKPQTS EKQAKEILIR RQNTLRESMR KGQSLPWGKP AGTKNFRYLS FPYSNPQAAR</p>

Product Details

REARAAEPTD DDGTDSGFQP LMFSIHSRAG SLQERRQTQA VIPMKRLQRG EKALSFSYRS
NTSWEDQAGW RRMDVLRPKP LFYAVAAEYD SGEQTEETS AILSRWTAEH RHSTEHKSH
SPLLHRK **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.**

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:

SLC9A4

Alternative Name:

Slc9a4 ([SLC9A4 Products](#))

Background:

Sodium/hydrogen exchanger 4 (Na⁺)/H⁺ exchanger 4) (NHE-4) (Solute carrier family 9 member 4),FUNCTION: Electroneutral antiporter that exchanges sodium for protons or ammonium ions at the basolateral membrane of epithelia to regulate cell volume and intracellular pH upon hypertonic conditions (PubMed:15684419, PubMed:20484819). As part of transcellular ammonia transport in renal tubules, mediates basolateral ammonium extrusion in the medullary thick ascending limb, regulating the corticopapillary ammonium gradient and overall renal acid excretion (PubMed:20484819). Mediates sodium:proton exchange in gastric parietal cells secondary to cAMP-dependent acid secretion and hyperosmolarity. Possibly

Target Details

coupled to chloride:bicarbonate antiporter, enables loading of parietal cells with sodium and chloride ions to maintain cell volume and normal gastric acid secretion (PubMed:15684419). Functions as a sodium sensor in neurons of organum vasculosum of the lamina terminalis where it regulates water intake in response to increased sodium concentration in body fluids (PubMed:32372285). {ECO:0000269|PubMed:15684419, ECO:0000269|PubMed:20484819, ECO:0000269|PubMed:32372285}.

Molecular Weight: 90.9 kDa

UniProt: [Q8BUE1](#)

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