

Datasheet for ABIN7557423
NHEDC2 Protein (AA 1-547) (His tag)



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Overview

Quantity:	1 mg
Target:	NHEDC2
Protein Characteristics:	AA 1-547
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NHEDC2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slc9b2 Protein expressed in mammalian cells.
Sequence:	<p>MEDEDKTAEC QHSKPPTGIT HEAPPHHELQ EERVMSLRGT DRSEPTEGSN LLTSGEKKPQ DSPTEPNGLQ SLRRFLACPP RGCLARVITN GTMVVLLWAM VWSVTGPECL PGGNLFGLII LFYCSITGGK LFGLIKFPTL PPLPPLLGM LAGFLLRNIP VINDSVRIQH KWSSSLRSIA LSVILVRAGL GLDSKALRKL KGVCVRLAMG PCIVEACASA ILSHFLMGLP WQWGFILGFV VGAVSPAVVV PSMALLQEGG YGVGKGIPTL LMAAGSFDDI LAITGFNTCL GVAFTSGSTV FNIFRGILEV VIGVAAGSFL GFFIQYFPSR DQDNLVWKRA FLVLGFAVLA VFSSVYFSFP GSGGLCTLVM AFLAGMRWTD KKSEVEKVIA VTWDVFQPLL FGLIGAEVSI VSLRAETVGL CVATLSIAVL IRILTTFLMV CFAGFNIKEK IFISFAWLPK ATVQAAIGSV ALDTARSHGE KQLEDYGMDV LTVAFLAILI TAPIGSLIG LLGPRVLQKS EHRTEEEVQG ETSAHQIRKP EDSITEA</p> <p>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.</p>

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:

NHEDC2

Alternative Name:

Slc9b2 ([NHEDC2 Products](#))

Background:

Sodium/hydrogen exchanger 9B2 (NHA-oc) (Na(+)/H(+) exchanger NHA2) (Na(+)/H(+) exchanger-like domain-containing protein 2) (NHE domain-containing protein 2) (Sodium/hydrogen exchanger-like domain-containing protein 2) (Solute carrier family 9 subfamily B member 2),FUNCTION: Electroneutral Na(+)/Li(+)/H(+) antiporter that extrudes Na(+) or Li(+) in exchange for external protons across the membrane (PubMed:18508966, PubMed:17988971). Uses the proton gradient/membrane potential to extrude sodium (By similarity). Contributes to the regulation of intracellular pH and sodium homeostasis (PubMed:27909897). Also able to mediate Na(+)/Li(+) antiporter activity in kidney (By similarity). May play a physiological role in renal tubular function and blood pressure homeostasis (PubMed:32956652, PubMed:27909897). Plays an important role for insulin secretion and clathrin-mediated endocytosis in beta-cells (PubMed:23720317). Involved in sperm motility and fertility (PubMed:27010853). It is controversial whether SLC9B2 plays a role

Target Details

in osteoclast differentiation or not (PubMed:20441802, PubMed:17988971).
{ECO:0000250|UniProtKB:Q86UD5, ECO:0000269|PubMed:17988971,
ECO:0000269|PubMed:18508966, ECO:0000269|PubMed:20441802,
ECO:0000269|PubMed:23720317, ECO:0000269|PubMed:27010853,
ECO:0000269|PubMed:27909897, ECO:0000269|PubMed:32956652}.

Molecular Weight: 58.9 kDa

UniProt: [Q5BKR2](#)

Pathways: [Proton Transport](#)

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