

Datasheet for ABIN7546128

NHEDC2 Protein (AA 1-537) (His tag)



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Overview

Quantity:	1 mg
Target:	NHEDC2
Protein Characteristics:	AA 1-537
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NHEDC2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC9B2 Protein expressed in mammalian cells.
Sequence:	<p>MGDEDKRITY EDSEPSTGMN YTPSMHQEAQ EETVMKLKGI DANEPTEGSI LLKSSEKKLQ</p> <p>ETPTEANHVQ RLRQMLACPP HGLLDREVITN VTIIVLLWAV VWSITGSECL PGGNLFGLII</p> <p>LFYCAIIGGK LLGLIKLPTL PPLPSLLGML LAGFLIRNIP VINDNVQIKH KWSSSLRSIA LSIIIVRAGL</p> <p>GLDSKALKKL KGVCVRLSMG PCIVEACTSA LLAHYLLGLP WQWGFILGFV LGAVSPAVVV</p> <p>PSMLLLQGGG YGVEKGVPTL LMAAGSFDDI LAITGFNTCL GIAFSTGSTV FNVLRGVLEV</p> <p>VIGVATGSVL GFFIQYFPSR DQDKLVCKRT FLVLGLSVLA VFSSVHFGFP GSGGLCTLVM</p> <p>AFLAGMGWTS EKAEVEKIIA VAWDIFQPLL FGLIGAEVSI ASLRPETVGL CVATVGIAVL</p> <p>IRILTTFLMV CFAGFNLKEK IFISFAWLPK ATVQAAIGSV ALDTARSHGE KQLEDYGMDV</p> <p>LTVAFLSILI TAPIGSLIG LLGPRLLQKV EHQNKDEEVQ GETSVQV 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>

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NHEDC2
Alternative Name:	SLC9B2 (NHEDC2 Products)
Background:	<p>Sodium/hydrogen exchanger 9B2 (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:18000046, PubMed:28154142, PubMed:22948142, PubMed:18508966, PubMed:36177733). Uses the proton gradient/membrane potential to extrude sodium (PubMed:22948142). Contributes to the regulation of intracellular pH and sodium homeostasis (By similarity). Also able to mediate Na(+)/Li(+) antiporter activity in kidney (PubMed:22948142). May play a physiological role in renal tubular function and blood pressure homeostasis (By similarity). Plays an important role for insulin secretion and clathrin-mediated endocytosis in beta-cells (By similarity). Involved in sperm motility and fertility (By</p>

Target Details

	similarity). It is controversial whether SLC9B2 plays a role in osteoclast differentiation or not (By similarity). {ECO:0000250 UniProtKB:Q5BKR2, ECO:0000269 PubMed:18000046, ECO:0000269 PubMed:18508966, ECO:0000269 PubMed:22948142, ECO:0000269 PubMed:28154142, ECO:0000269 PubMed:36177733}.
Molecular Weight:	57.6 kDa
UniProt:	Q86UD5
Pathways:	Proton Transport

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