Datasheet for ABIN7559757

NHE8 Protein (AA 1-576) (His tag)

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Overview

Quantity:	1 mg
Target:	NHE8 (SLC9A8)
Protein Characteristics:	AA 1-576
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NHE8 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc9a8 Protein expressed in mammalian cells.
Sequence:	MAEEEFSNTT HETFNFTLHT TLGVTTKLVL PTPAKPILPV QTGEQAQQEE QSSGMTIFFS LLVLAICIIL VHLLIRYRLH FLPESVAVVS LGILMGAVIK VIEFKKLANW KEEEMFRPNM FFLLLLPPII FESGYSLHKG NFFQNIGSIT LFAVFGTAIS AFVVGGGIYF LGQADVISKL NMTDSFAFGS LISAVDPVAT IAIFNALHVD PVLNMLVFGE SILNDAVSIV LTNTAEGLTR KHMSDVSGWQ TFSQALGYFL KMFFGSAALG TLTGLISALV LKHIDLRKTP SLEFGMMIIF AYLPYGLAEG ISLSGIMAIL FSGIVMSHYT HHNLSPVTQI LMQQTLRTVA FLCETCVFAF LGLSIFSFPH KFEISFVIWC IVLVLFGRAV NIFPLSYLLN FFRDHKITPK MMFIMWFSGL RGAIPYALSL HLGLEPMEKR QLIGTTTIVI VLFTILLLGG STMPLIRLVD IEDARARRRS KKDVNLSKTE KMGNAIESEH LSELTEEEYE AHYIRQQDLK GFMWLDAKYL NPFFTRRLTQ EDLHHGRIQM KSLTNKWYEE VRQGPSGSED DEQELF **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.**

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:	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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NHE8 (SLC9A8)
Alternative Name:	Slc9a8 (SLC9A8 Products)
Background:	Sodium/hydrogen exchanger 8 (Na(+)/H(+) exchanger 8) (NHE-8) (Solute carrier family 9 member 8),FUNCTION: Na(+)/H(+) antiporter. Mediates the electoneutral exchange of intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry. Acts as an Na(+)/H(+) exchanger in the trans-Golgi. Contributes to the regulation of pH regulation of Golgi apparatus, and consequently, in protein trafficking and endosomal morphology (By similarity). Plays a crucial role in germ cells in acrosome biogenesis and sperm development, probably by playing a role in the fusion of the Golgi-derived vesicles that form the acrosomal cap (PubMed:28476888, PubMed:25472965). Can also be active at the cell surface of specialized cells. In the small intestine, plays a major physiological role in transepithelial absorption of Na(+). Regulates intracellular pH homeostasis of intestinal epithelial cells (By similarity). Acts as an important regulator of mucosal integrity in the intestine and in the stomach, could

Target Details

	mediate the pH fluctuation necessary for mucin exocytosis or assist membrane trafficking of other proteins (PubMed:26505975, PubMed:23657568, PubMed:23220221). Plays a role in photoreceptor survival and in the maintenance of intracellular pH homeostasis in retinal pigment epithelium (RPE cells) (PubMed:29958869, PubMed:25377091). {ECO:0000250|UniProtKB:Q9Y2E8, ECO:0000269|PubMed:23220221, ECO:0000269|PubMed:23657568, ECO:0000269|PubMed:25377091, ECO:0000269|PubMed:25472965, ECO:0000269|PubMed:26505975, ECO:0000269|PubMed:28476888, ECO:0000269|PubMed:29958869}.
Molecular Weight:	64.7 kDa
UniProt:	Q8R4D1
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