Datasheet for ABIN7555573

SLC9A1 Protein (AA 1-815) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC9A1
Protein Characteristics:	AA 1-815
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC9A1 Protein expressed in mammalian cells.
Sequence:	MVLRSGICGL SPHRIFPSLL VVVALVGLLP VLRSHGLQLS PTASTIRSSE PPRERSIGDV TTAPPEVTPE SRPVNHSVTD HGMKPRKAFP VLGIDYTHVR TPFEISLWIL LACLMKIGFH VIPTISSIVP ESCLLIVVGL LVGGLIKGVG ETPPFLQSDV FFLFLLPPII LDAGYFLPLR QFTENLGTIL IFAVVGTLWN AFFLGGLMYA VCLVGGEQIN NIGLLDNLLF GSIISAVDPV AVLAVFEEIH INELLHILVF GESLLNDAVT VVLYHLFEEF ANYEHVGIVD IFLGFLSFFV VALGGVLVGV VYGVIAAFTS RFTSHIRVIE PLFVFLYSYM AYLSAELFHL SGIMALIASG VVMRPYVEAN ISHKSHTTIK YFLKMWSSVS ETLIFIFLGV STVAGSHHWN WTFVISTLLF CLIARVLGVL GLTWFINKFR IVKLTPKDQF IIAYGGLRGA IAFSLGYLLD KKHFPMCDLF LTAIITVIFF TVFVQGMTIR PLVDLLAVKK KQETKRSINE EIHTQFLDHL LTGIEDICGH YGHHHWKDKL NRFNKKYVKK CLIAGERSKE PQLIAFYHKM EMKQAIELVE SGGMGKIPSA VSTVSMQNIH PKSLPSERIL PALSKDKEEE IRKILRNNLQ KTRQRLRSYN RHTLVADPYE EAWNQMLLRR QKARQLEQKI NNYLTVPAHK LDSPTMSRAR IGSDPLAYEP KEDLPVITID PASPQSPESV

Product Details

	DLVNEELKGK VLGLSRDPAK VAEEDEDDDG GIMMRSKETS SPGTDDVFTP APSDSPSSQR IQRCLSDPGP HPEPGEGEPF FPKGQ **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.**
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:	SLC9A1
Alternative Name:	SLC9A1 (SLC9A1 Products)
Background:	Sodium/hydrogen exchanger 1 (APNH) (Na(+)/H(+) antiporter, amiloride-sensitive) (Na(+)/H(+) exchanger 1) (NHE-1) (Solute carrier family 9 member 1),FUNCTION: Electroneutral Na(+) /H(+) antiporter that extrudes Na(+) in exchange for external protons driven by the inward sodium ion chemical gradient, protecting cells from acidification that occurs from metabolism (PubMed:7110335, PubMed:7603840, PubMed:11532004, PubMed:11350981, PubMed:15035633, PubMed:14680478, PubMed:17073455, PubMed:22020933, PubMed:27650500, PubMed:15677483, PubMed:32130622, PubMed:17493937). Exchanges

Target Details

	intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry (By similarity). Plays a key role in maintening intracellular pH neutral and cell volume, and thus is important for cell growth, proliferation, migration and survival (PubMed:8901634, PubMed:12947095, PubMed:15096511, PubMed:22020933). In addition, can transport lithium Li(+) and functions also as a Na(+)/Li(+) antiporter (PubMed:7603840). SLC9A1 also functions in membrane anchoring and organization of scaffolding complexes that coordinate signaling inputs (PubMed:15096511). {ECO:0000250|UniProtKB:P26431, ECO:0000269|PubMed:11350981, ECO:0000269|PubMed:11532004, ECO:0000269|PubMed:12947095, ECO:0000269|PubMed:14680478, ECO:0000269|PubMed:15035633, ECO:0000269|PubMed:15096511, ECO:0000269|PubMed:15677483, ECO:0000269|PubMed:17073455, ECO:0000269|PubMed:17493937, ECO:0000269|PubMed:22020933, ECO:0000269|PubMed:27650500, ECO:0000269|PubMed:32130622, ECO:0000269|PubMed:7110335, ECO:0000269|PubMed:7603840, ECO:0000269|PubMed:8901634}.
Molecular Weight:	90.8 kDa
UniProt:	P19634
Pathways:	Glycosaminoglycan Metabolic Process, 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