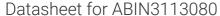
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SLC9A1 Protein (AA 1-815) (Strep Tag)

2 Images



Go to Product page

Overview

Quantity:	1 mg
Target:	SLC9A1
Protein Characteristics:	AA 1-815
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:

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

MVLRSGICGL SPHRIFPSLL VVVALVGLLP VLRSHGLQLS PTASTIRSSE PPRERSIGDV

DLVNEELKGK VLGLSRDPAK VAEEDEDDDG GIMMRSKETS SPGTDDVFTP APSDSPSSQR IQRCLSDPGP HPEPGEGEPF FPKGQ

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- · The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details Purification: Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Endotoxin Level: 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 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

 $\{ECO: 0000250 | UniProtKB: P26431, ECO: 0000269 | PubMed: 11350981, ECO: 00000269 | PubMed: 11350$

of scaffolding complexes that coordinate signaling inputs (PubMed:15096511).

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}.

Target Details Molecular Weight: 90.8 kDa UniProt: P19634 Pathways: Glycosaminoglycan Metabolic Process, Proton Transport **Application Details** In addition to the applications listed above we expect the protein to work for functional studies Application Notes: as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

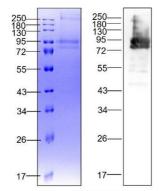
needed is the DNA that codes for the desired protein!

components needed for protein production (amino acids, cofactors, etc.) are added to produce

something that functions like a cell, but without the constraints of a living system - all that's



[NHE1]|[SLC9A1]| [1-815], gel filtration, [Superose 6 10/300GL] [B8,B7,B6,B5,B4]



[NHE1][SLC9A1]] [1-815], gel filtration, [Superose 6 10/300GL] [B8,B7,B6,B5,B4,B3] Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.

Western Blotting

Image 2.