

Datasheet for ABIN7563904  
**SLC9A1 Protein (AA 1-820) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC9A1
Protein Characteristics:	AA 1-820
Origin:	Mouse
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:	MMLRWSGVWG FHPPRIFPSL LVVVALVGLL PVLRSGLQH SPTASTIRGS EPPRERSIGD VTTAPSEPLH RPDDHNLNLTN IIEHGGKPSR KAFPVLIDIDY PHVRTPF EIS LWILLACLMK IGFHV IPTIS SIVPESCLLI VVGLLVGGLI KGVGETPPFL QSDVFFLFL PPIILDAGYF LPLRQFTENL GTILIFAVVG TLWNAFFLGG LLYAVCLVGG EQINNIGLLD TLLFGSIISA VDPVAVLAVF EEIHINELLH ILVFGESLLN DAVTVVLYHL FEEFASYDSV GISDIFLGFL SFFVVALGGV FVGVVYGVIA AFTSRFTSHI RVIEPLFVFL YSYMAYLSAE LFHLSGIMAL IASGVVMRPY VEANISHKSH TTIKYFLKMW SSVSETLIFI FLGVSTVAGS HQWNWTFVIS TLLFCL IARV LGVLVLTWFI NKFRIVKLTP KDQFIIAYGG LRGAI AFSLG YLLDKKH FPM CDLFLTAIT VIFFTVFVQG MTIRPLVDLL AVK K KQETKR SINEEIH TQF LDHLLTGIED ICGHYGHHHW KDKLNRFNKK YVKKCL IAGE RSKEPQL IAF YHKMEMKQAI ELVESGGMGK IPSAVSTVSM QNIHPKAVTS DRILPALS KD KEE EIRKILR SNLQKTRQRL RSYNRHTLVA DPYEEAWNQM LLRRQKARQL EQKITNYLTV PAHKLDSPTL SRARIGSDPL AYEPKADLPV ITIDPAS PQS

## Product Details

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PESVDLVNEE LKGKVLGLNR GPRVTPEEEEE EDEDGIIMIR SKEPSSPGTD DVFTPGSSDS  
PSSQRIQRCL SDPGPHPEPG EGEPFIPKGQ **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.**

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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.

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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.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: SLC9A1

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Alternative Name: Slc9a1 ([SLC9A1 Products](#))

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Background: Sodium/hydrogen exchanger 1 (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 (By similarity). Exchanges intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry (By similarity). Plays a key role in maintaining intracellular pH neutral and cell volume, and thus is important for cell growth, proliferation,

## Target Details

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migration and survival. In addition, can transport lithium Li(+) and functions also as a Na(+)/Li(+) antiporter. SLC9A1 also functions in membrane anchoring and organization of scaffolding complexes that coordinate signaling inputs (By similarity).  
{ECO:0000250|UniProtKB:P19634, ECO:0000250|UniProtKB:P26431}.

Molecular Weight: 91.5 kDa

UniProt: [Q61165](#)

Pathways: [Glycosaminoglycan Metabolic Process](#), [Proton Transport](#)

## Application Details

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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

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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