

Datasheet for ABIN755552  
**SLC9A5 Protein (AA 1-896) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC9A5
Protein Characteristics:	AA 1-896
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A5 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SLC9A5 Protein expressed in mammalian cells.
Sequence:	MLRAALSLLA LPLAGAAEEP TQKPESPGEP PPGLELFRWQ WHEVEAPYLV ALWILVASLA KIVFHLSRKV TSLVPESCLL ILLGLVLGGI VLAVAKKAEY QLEPGTFFLF LLPPIVLDSG YFMP SRLFFD NLGAILTYAV VGTLWNAFTT GAALWGLQQA GLVAPRVQAG LLDFLLFGSL ISAVDPVAVL AVFEEVHVNE TLFIIVFGES LLNDAVTVVL YKVCNSFVEM GSANVQATDY LKGVASLFVW SLGGAAVGLV FAFLLALTTR FTKRVRIIEP LLVFLLAYAA YLTAEMASLS AILAVTMCGL GCKKYVEANI SHKSRTTVKY TMKTLASCAE TVIFMLLGIS AVDSSKWAWD SGLVLGTLIF ILFFRALGVV LQTWVLNQFR LVPLDKIDQV VMSYGGLRGA VAFALVILLD RTKVPKDYF VATTIVVFF TVIVQGLTIK PLVKWLKVKR SEHHKPTLNQ ELHEHTFDHI LAAVEDVVGH HGYYHWRDRW EQFDKKYLSQ LLMRRSAYRI RDQIWDVYYR LNIRDAISFV DQGGHVLSSST GLTLPSMPSR NSVAETSVTN LLRESGSGAC LDLQVIDTVR SGRDREDAVM HHLLCGGLYK PRRRYKASCS RHFISEDAQE RQDKEVFQQN MKRRLESFKS TKHNICFTKS KPRPRKTGRR KKDGVANAEA TNGKHRGLGF QDAAVILTV EEEEEEEESD SSETEKEDDE

## Product Details

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GIIFVARATS EVLQEGKVSQ SLEVCPSPRI IPPSPTCAEK ELPWKSGQGD LAVYVSSETT  
KIVPVDMQTG WNQSISSLES LASPPCNQAP ILTCLPPHPR GTEEPQVPLH LPSDPRSSFA  
FPPSLAKAGR SRSESSADLP QQQLQPLMG HKDHTHLSPG TATSHWCIQF NRGSRLL **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

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Target: SLC9A5

Alternative Name: SLC9A5 ([SLC9A5 Products](#))

Background: Sodium/hydrogen exchanger 5 (Na(+)/H(+) exchanger 5) (NHE-5) (Solute carrier family 9 member 5),FUNCTION: Plasma membrane Na(+)/H(+) antiporter. Mediates the electroneutral exchange of intracellular H(+) ions for extracellular Na(+) in 1:1 stoichiometry, thus regulating intracellular pH homeostasis, in particular in neural tissues (PubMed:9933641, PubMed:10692428, PubMed:19276089, PubMed:24936055). Acts as a negative regulator of

## Target Details

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dendritic spine growth (PubMed:21551074). Plays a role in postsynaptic remodeling and signaling (PubMed:24006492, PubMed:21551074). Can also contribute to organellar pH regulation, with consequences for receptor tyrosine kinase trafficking (PubMed:24936055). {ECO:0000269|PubMed:10692428, ECO:0000269|PubMed:19276089, ECO:0000269|PubMed:21551074, ECO:0000269|PubMed:24006492, ECO:0000269|PubMed:24936055, ECO:0000269|PubMed:9933641}.

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Molecular Weight: 99.0 kDa

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UniProt: [Q14940](#)

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Pathways: [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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months