Datasheet for ABIN3114898

SLC9A5 Protein (AA 1-896) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC9A5
Protein Characteristics:	AA 1-896
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MLRAALSLLA LPLAGAAEEP TQKPESPGEP PPGLELFRWQ WHEVEAPYLV ALWILVASLA KIVFHLSRKV TSLVPESCLL ILLGLVLGGI VLAVAKKAEY QLEPGTFFLF LLPPIVLDSG YFMPSRLFFD NLGAILTYAV VGTLWNAFTT GAALWGLQQA GLVAPRVQAG LLDFLLFGSL ISAVDPVAVL AVFEEVHVNE TLFIIVFGES LLNDAVTVVL YKVCNSFVEM GSANVQATDY LKGVASLFVV SLGGAAVGLV FAFLLALTTR FTKRVRIIEP LLVFLLAYAA YLTAEMASLS AILAVTMCGL GCKKYVEANI SHKSRTTVKY TMKTLASCAE TVIFMLLGIS AVDSSKWAWD SGLVLGTLIF ILFFRALGVV LQTWVLNQFR LVPLDKIDQV VMSYGGLRGA VAFALVILLD RTKVPAKDYF VATTIVVVFF TVIVQGLTIK PLVKWLKVKR SEHHKPTLNQ ELHEHTFDHI LAAVEDVVGH HGYHYWRDRW EQFDKKYLSQ LLMRRSAYRI RDQIWDVYYR LNIRDAISFV DQGGHVLSST GLTLPSMPSR NSVAETSVTN LLRESGSGAC LDLQVIDTVR SGRDREDAVM HHLLCGGLYK PRRRYKASCS RHFISEDAQE RQDKEVFQQN MKRRLESFKS TKHNICFTKS

KPRPRKTGRR KKDGVANAEA TNGKHRGLGF QDTAAVILTV ESEEEEEESD SSETEKEDDE GIIFVARATS EVLQEGKVSG SLEVCPSPRI IPPSPTCAEK ELPWKSGQGD LAVYVSSETT KIVPVDMQTG WNQSISSLES LASPPCNQAP ILTCLPPHPR GTEEPQVPLH LPSDPRSSFA FPPSLAKAGR SRSESSADLP QQQELQPLMG HKDHTHLSPG TATSHWCIQF NRGSRL

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

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 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}.
Molecular Weight:	99.0 kDa
UniProt:	Q14940
Pathways:	Proton Transport

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies 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

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Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months