Datasheet for ABIN3115249

SLC9A10 Protein (AA 1-1177) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC9A10 (SLC9C1)
Protein Characteristics:	AA 1-1177
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC9A10 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAGIFKEFFF STEDLPEVIL TLSLISSIGA FLNRHLEDFP IPVPVILFLL GCSFEVLSFT SSQVQRYANA IQWMSPDLFF RIFTPVVFFT TAFDMDTYML QKLFWQILLI SIPGFLVNYI LVLWHLASVN QLLLKPTQWL LFSAILVSSD PMLTAAAIRD LGLSRSLISL INGESLMTSV ISLITFTSIM DFDQRLQSKR NHTLAEEIVG GICSYIIASF LFGILSSKLI QFWMSTVFGD DVNHISLIFS ILYLIFYICE LVGMSGIFTL AIVGLLLNST SFKAAIEETL LLEFWTFLSR IAFLMVFTFF GLLIPAHTYL YIEFVDIYYS LNIYLTLIVL RFLTLLLISP VLSRVGHEFS WRWIFIMVCS EMKGMPNINM ALLLAYSDLY FGSDKEKSQI LFHGVLVCLI TLVVNRFILP VAVTILGLRD ATSTKYKSVC CTFQHFQELT KSAASALKFD KDLANADWNM IEKAITLENP YMLNEEETTE HQKVKCPHCN KEIDEIFNTE AMELANRRLL SAQIASYQRQ YRNEILSQSA VQVLVGAAES FGEKKGKCMS LDTIKNYSES QKTVTFARKL LLNWVYNTRK EKEGPSKYFF FRICHTIVFT EEFEHVGYLV ILMNIFPFII SWISQLNVIY HSELKHTNYC FLTLYILEAL LKIAAMRKDF FSHAWNIFEL AITLIGILHV

ILIEIDTIKY IFNETEVIVF IKVVQFFRIL RIFKLIAPKL LQIIDKRMSH QKTFWYGILK GYVQGEADIM TIIDQITSSK QIKQMLLKQV IRNMEHAIKE LGYLEYDHPE IAVTVKTKEE INVMLNMATE ILKAFGLKGI ISKTEGAGIN KLIMAKKKEV LDSQSIIRPL TVEEVLYHIP WLDKNKDYIN FIQEKAKVVT FDCGNDIFEE GDEPKGIYII ISGMVKLEKS KPGLGIDQMV ESKEKDFPII DTDYMLSGEI IGEINCLTNE PMKYSATCKT VVETCFIPKT HLYDAFEQCS PLIKQKMWLK LGLAITARKI REHLSYEDWN YNMQLKLSNI YVVDIPMSTK TDIYDENLIY VILIHGAVED CLLRKTYRAP FLIPITCHQI QSIEDFTKVV IIQTPINMKT FRRNIRKFVP KHKSYLTPGL IGSVGTLEEG IQEERNVKED GAHSAATARS PQPCSLLGTK FNCKESPRIN LRKVRKE

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:

Product Details

- 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.

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:	SLC9A10 (SLC9C1)
Alternative Name:	SLC9C1 (SLC9C1 Products)
Background:	Solute carrier family 9 member C1 (Na(+)/H(+) exchanger 10) (NHE-10) (Sodium/hydrogen exchanger 10) (Solute carrier family 9 member 10) (Sperm-specific Na(+)/H(+) exchanger) (sNHE),FUNCTION: Sperm-specific solute carrier involved in intracellular pH regulation of spermatozoa. Required for sperm motility and fertility. Involved in sperm cell hyperactivation, a step needed for sperm motility which is essential late in the preparation of sperm for fertilization. Required for the expression and bicarbonate regulation of the soluble adenylyl cyclase (sAC) (By similarity). {ECO:0000250|UniProtKB:Q6UJY2}.
Molecular Weight:	135.2 kDa
UniProt:	Q4G0N8

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.
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Application Details

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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