Datasheet for ABIN3115763

SLC4A10 Protein (AA 1-1118) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	SLC4A10
Protein Characteristics:	AA 1-1118
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A10 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MEIKDQGAQM EPLLPTRNDE EAVVDRGGTR SILKTHFEKE DLEGHRTLFI GVHVPLGGRK SHRRHRHRGH KHRKRDRERD SGLEDGRESP SFDTPSQRVQ FILGTEDDDE EHIPHDLFTE LDEICWREGE DAEWRETARW LKFEEDVEDG GERWSKPYVA TLSLHSLFEL RSCILNGTVL LDMHANTLEE IADMVLDQQV SSGQLNEDVR HRVHEALMKQ HHHQNQKKLT NRIPIVRSFA DIGKKQSEPN SMDKNAGQVV SPQSAPACVE NKNDVSRENS TVDFSKGLGG QQKGHTSPCG MKQRHEKGPP HQQEREVDLH FMKKIPPGAE ASNILVGELE FLDRTVVAFV RLSPAVLLQG LAEVPIPTRF LFILLGPLGK GQQYHEIGRS IATLMTDEVF HDVAYKAKDR NDLVSGIDEF LDQVTVLPPG EWDPSIRIEP PKNVPSQEKR KIPAVPNGTA AHGEAEPHGG HSGPELQRTG RIFGGLILDI KRKAPYFWSD FRDAFSLQCL ASFLFLYCAC MSPVITFGGL LGEATEGRIS AIESLFGASM TGIAYSLFGG QPLTILGSTG PVLVFEKILF KFCKEYGLSY LSLRASIGLW TATLCIILVA TDASSLVCYI TRFTEEAFAS LICIIFIYEA LEKLFELSEA YPINMHNDLE LLTQYSCNCV

EPHNPSNGTL KEWRESNISA SDIIWENLTV SECKSLHGEY VGRACGHDHP YVPDVLFWSV ILFFSTVTLS ATLKQFKTSR YFPTKVRSIV SDFAVFLTIL CMVLIDYAIG IPSPKLQVPS VFKPTRDDRG WFVTPLGPNP WWTVIAAIIP ALLCTILIFM DQQITAVIIN RKEHKLKKGC GYHLDLLMVA VMLGVCSIMG LPWFVAATVL SITHVNSLKL ESECSAPGEQ PKFLGIREQR VTGLMIFILM GSSVFMTSIL KFIPMPVLYG VFLYMGASSL KGIQFFDRIK LFWMPAKHQP DFIYLRHVPL RKVHLFTIIQ MSCLGLLWII KVSRAAIVFP MMVLALVFVR KLMDLLFTKR ELSWLDDLMP ESKKKKLEDA EKEEEQSMLA MEDEGTVQLP LEGHYRDDPS VINISDEMSK TALWRNLLIT ADNSKDKESS FPSKSSPS

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:	SLC4A10
Alternative Name:	SLC4A10 (SLC4A10 Products)
Background:	Sodium-driven chloride bicarbonate exchanger (Solute carrier family 4 member 10),FUNCTION: Sodium/bicarbonate cotransporter which plays an important role in regulating intracellular pH (PubMed:18319254). Has been shown to act as a sodium/bicarbonate cotransporter in exchange for intracellular chloride (By similarity). Has also been shown to act as a sodium/biocarbonate cotransporter which does not couple net influx of bicarbonate to net efflux of chloride, with the observed chloride efflux being due to chloride self-exchange (PubMed:18319254). Controls neuronal pH and may contribute to the secretion of cerebrospinal fluid (By similarity). Reduces the excitability of CA1 pyramidal neurons and modulates short-term synaptic plasticity (By similarity). Required in retinal cells to maintain normal pH which is necessary for normal vision (By similarity). In the kidney, likely to mediate bicarbonate reclamation in the apical membrane of the proximal tubules (By similarity). {ECO:0000250|UniProtKB:Q5DTL9, ECO:0000250|UniProtKB:Q80ZA5, ECO:0000269|PubMed:18319254}.
Molecular Weight:	125.9 kDa
UniProt:	Q6U841

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.

Application Details

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 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!
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