Datasheet for ABIN3136513

SLC4A8 Protein (AA 1-1089) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC4A8
Protein Characteristics:	AA 1-1089
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A8 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPAGSNEPDG VLSYQRPDEE AVVDQGGTST ILNIHYEKEE LEGHRTLYVG VRMPLGRQSH RHHRTHGQKH RRRGGRGKGA SQGEEGLEAL AHDTPSQRVQ FILGTEEDEE HVPHELFTEL DEICMKEGED AEWKETARWL KFEEDVEDGG ERWSKPYVAT LSLHSLFELR SCLINGSVLL DMRASSIEEI SDLILDQQEL LRDLSDSVRV KVREALLKKH HHQNERRRNN LIPIVRSFAE VGKKQSDPHS MDRDGQTVSP QSATNLEVKN GVNCEHSPVD LSKVDLHFMK KIPTGAEASN VLVGEVDTLD RPIVAFVRLS PAVLLSGLTE VPIPTRFLFI LLGPVGKGQQ YHEIGRSMAT IMTDEIFHDV AYKAKERDDL LAGIDEFLDQ VTVLPPGEWD PSIRIEPPKN VPSQEKRKMP GVPNGNVCHI EPEPHGGHSG PELERTGRLF GGLVLDVKRK APWYWSDYRD ALSLQCLASF LFLYCACMSP VITFGGLLGE ATEGRISAIE SLFGASMTGI AYSLFAGQPL TILGSTGPVL VFEKILFKFC KDYALSYLSL RALIGLWTAF LCIVLVATDA SSLVCYITRF TEEAFASLIC IIFIYEAIEK LIHLAETYPI HMHSQLDHLS LYYCRCVLPE NPNNHTLQYW KDHNILAAEV NWANLTVSEC

QEMHGEFMGS ACGHHGPYTP DVLFWSCILF FATFIVSSTL KTFKTSRYFP TRVRSMVSDF AVFLTIFTMV VLDFLIGVPS PKLQVPNVFK PTRDDRGWFI NPIGPNPWWT VIAAIIPALL CTILIFMDQQ ITAVIINRKE HKLKKGCGYH LDLLMVAVML GVCSIMGLPW FVAATVLSIT HVNSLKLESE CSAPGEQPKF LGIREQRVTG LMIFVLMGCS VFMTAVLKFI PMPVLYGVFL YMGVSSLQGI QFFDRLKLFG MPAKHQPDFI YLRHVPLRKV HLFTLVQLTC LVLLWVIKAS PAAIVFPMMV LALVFVRKVM DLCFSKRELS WLDDLMPESK KKKLDDAKKK EEEEAEKMLD IGGDKFPLES RKLLSSPGKS SSFRCDPSEI NISDEMPKTT VWKALSINSG NTKEKSPFN

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.

Product Details

- 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:	SLC4A8
Alternative Name:	Slc4a8 (SLC4A8 Products)
Background:	Electroneutral sodium bicarbonate exchanger 1 (Electroneutral Na+-driven Cl-HCO3 exchanger) (Solute carrier family 4 member 8) (k-NBC3),FUNCTION: Mediates electroneutral sodium- and carbonate-dependent chloride-HCO3(-) exchange with a Na(+):HCO3(-) stoichiometry of 2:1 (PubMed:20389022). Plays a major role in pH regulation in neurons (PubMed:21593314). Mediates sodium reabsorption in the renal cortical collecting ducts (PubMed:20389022). {ECO:0000269|PubMed:20389022, ECO:0000269|PubMed:21593314}.
Molecular Weight:	122.4 kDa
UniProt:	Q8JZR6

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 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

Application Details

	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