

Datasheet for ABIN3117514

SLC4A9 Protein (AA 1-983) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	SLC4A9
Protein Characteristics:	AA 1-983
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A9 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MEMKLPQGEG FEASSAPRNI PSGELDSNPDPGTGSPDGP SDTESKELGV PKDPLLFQQL</p> <p>NELLGWPQAL EWRETGSSSA SLLDLMGEMP SITLSTHLHH RWWLFEEKLE VAAGRWSAPH</p> <p>VPTLALPSLQ KLRSLLAEG LLLDCPAQSL LELVEQVTRV ESLSPELRGQ LQALLQRPQ</p> <p>HYNQTTGTRP CWGSTHPRKA SDNEEAPLRE QCQNPLRQKL PPGAEAGTVL AGELGFLAQP</p> <p>LGAFVRLRNP VVLGSLTEVS LPSRFFCLLL GPCMLGKGYH EMGRAAAVLL SDPQFQWSVR</p> <p>RASNLHDLLA ALDAFLEEVTVLPPGRWDPT ARIPPPKCLP SQHKRLPSQQ REIRGPAVPR</p> <p>L TSAEDRHRH GPHAHSPQL RTGRLFGGLI QDVRRKVPWY PSDFLDALHL QCFSVLYIY</p> <p>LATVTNAITF GLLG DATDG AQGVLESFLG TAVAGAAFCL MAGQPLTILS STGPVLVFER</p> <p>LLFSFSRDYS LDYLPFRLWV GIWVATFCLV LVATEASVLV RYFTRFTEEG FCALISLIFI</p> <p>YDAVGKMLNL THTYPIQKPG SSAYGCLCQY PGPGGNESQW IRTRPKDRDD IVSMDLGLIN</p> <p>ASLLPPPECT RQGGHPRGPG CHTVPDIAFF SLLLFLTSFF FAMALKCVKT SRFFPSVVRK</p>

GLSDFSSVLA ILLGCGLDAF LGLATPKLMV PREFKPTLPG RGWLVSPFGA NPWWWSVAAA
LPALLLSILI FMDQQITAVI LNRMEYRLQK GAGFHLDLFC VAVLMLLTSA LGLPWYVSAT
VISLAHMDSL RRESRACAPG ERPNFLGIRE QRLTGLVVFI LTGASIFLAP VLKFIPMPVL
YGIFLYMGVA ALSSIQFTNR VKLLLMPAKH QPDLLLLRHV PLTRVHLFTA IQLACLGLLW
IIKSTPAAIL FPLMLLGLVG VRKALERVFS PQELLWLDEL MPEEERSIPE KGLEPEHSFS
GSDSESELM YQPKAPEINI SVN

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.

Product Details

- 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: SLC4A9

Alternative Name: SLC4A9 ([SLC4A9 Products](#))

Background: Anion exchange protein 4 (AE 4) (Anion exchanger 4) (Sodium bicarbonate cotransporter 5) (Solute carrier family 4 member 9),FUNCTION: Electroneutral Cl(-)/HCO3(-) antiporter that favors chloride ion entry and efflux of hydrogencarbonate and sodium ion across the basolateral membrane and may participate in salivary secretion (PubMed:27114614). Also mediates Cl(-)/HCO3(-) exchange activity in the presence of K(+) as well as Cs(+), Li(+), and Rb(+) (By similarity). Does not contribute to Cl(-)/HCO3(-) exchanger in the apical membrane of the upper villous epithelium (By similarity). {ECO:0000250|UniProtKB:A0A494BA31, ECO:0000269|PubMed:27114614}.

Molecular Weight: 108.2 kDa

UniProt: [Q96Q91](#)

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.

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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