

Datasheet for ABIN3130770 SLC4A11 Protein (AA 1-862) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SLC4A11
Protein Characteristics:	AA 1-862
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A11 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSQNEHCQDS GEYFSAGTQG YFKNNMEDNL EVREDSLGDE VFDTVNSSIV SGESIRFFVN
	VNLEVQPSKS DLEAATGGCV LLHTSRKYLK LKNFEEEVRA HRDLDGFLAQ ASIILNETAT
	SLDDVLRTML NRFALDPNHA EPDCDLDLLM AKLFTDAGAP MESKVHLLSD TIQGVTATVR
	GVQYEQSWLC IICTMKTLQK RHVCISRLVR PQNWGENSCE VRFVILVLAP PKMKSTKTAM
	EVARTFATMF SDITFRQKLL KTRTEEEFKE ALVHQRQLLT MMMPRAAGHS MSSLHTHRHP
	QPPKCKDFFP FGKGIWMDIM RRFPVYPMDF TDGIIGKSKS VGKYVTTTLF LYFACLLPTI
	AFGSLNDENT NGAIDVQKTI AGQSIGGLLY ALFSGQPLVI LLTTAPLAIY TQVIRVICDD
	YNLDFNAFYA WTGLWNSFFL ALYAFLNLSL LMNLFKRSTE EIIALFISIT FVLDAVKGMV
	KIFGKYYYGH HYHTKRTSSL VSLLGIGRSP NSSLHTALNA SLLASPVEMA TTSSPGSTHS
	GQATAVLSLL IMLGTLWLGY TLYQFKKSPY LHPCVRETLS DCALPIAVLS FSLIGSYGFQ
	EIEMSKFRYN PSESLFEVAQ IHSLSFKAIG SAMGLGFLLS LLFFIEQNLV AALVNAPENR

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3130770 | 02/25/2025 | Copyright antibodies-online. All rights reserved. LVKGTAYHWD LLLLAIINTG LSLFGLPWIH AAYPHSPLHV RALALVEERV ENGHIYETIV DVKETRLTAL GASVLVGLSL LLLPFPLQWI PKPVLYGLFL YIALTSLDGN QLFSRVALLL KEQTSYPPTH YIRRVPQRKI HYFTGLQILQ LLLLCAFGMS SLPYMKMVFP LIMIAMIPIR YNLLPRIIEA KYLDVMDAEH RP

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 posttranslational 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.

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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:	SLC4A11
Alternative Name:	Slc4a11 (SLC4A11 Products)
Background:	Solute carrier family 4 member 11 (Sodium borate cotransporter 1) (NaBC1),FUNCTION:
	Multifunctional transporter with an impact in cell morphology and differentiation
	(PubMed:20185830). In the presence of borate B(OH)4(-), acts as a voltage-dependent
	electrogenic Na(+)-coupled B(OH)4(-) cotransporter controlling boron homeostasis (By
	similarity). At early stages of stem cell differentiation, participates in synergy with ITGA5-ITGB1
	and ITGAV-ITGB3 integrins and BMPR1A to promote cell adhesion and contractility that drives
	differentiation toward osteogenic commitment while inhibiting adipogenesis
	(PubMed:33247189). In the absence of B(OH)4(-), acts as a Na(+)-coupled OH(-) or H(+)
	permeable channel with implications in cellular redox balance. Regulates the oxidative stress
	response in corneal endothelium by enhancing antioxidant defenses and protecting cells from
	reactive oxygen species. In response to hypo-osmotic challenge, also acts as water permeable
	channel at the basolateral cell membrane of corneal endothelial cells and facilitates
	transendothelial fluid reabsorption in the aqueous humor. In the presence of ammonia, acts as
	an electrogenic NH3/H(+) cotransporter and may play a role in ammonia transport and
	reabsorption in renal Henle's loop epithelium (By similarity). {ECO:0000250 UniProtKB:Q8NBS3
	ECO:0000269 PubMed:20185830, ECO:0000269 PubMed:33247189}.
Molecular Weight:	96.8 kDa
UniProt:	A2AJN7
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.

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Application Details

Restrictions:	For Research Use only
	needed is the DNA that codes for the desired protein!
	something that functions like a cell, but without the constraints of a living system - all that's
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	protein production are removed, leaving only the protein production machinery and the
	During lysate production, the cell wall and other cellular components that are not required for
	modifications.
	even the most difficult-to-express proteins, including those that require post-translational
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

HandlingFormat:LiquidBuffer: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 °CStorage Comment:Store at -80°C.Expiry Date:12 months