

Datasheet for ABIN3110448 SLC24A1 Protein (AA 1-1099) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SLC24A1
Protein Characteristics:	AA 1-1099
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC24A1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MGKLIRMGPQ ERWLLRTKRL HWSRLLFLLG MLIIGSTYQH LRRPRGLSSL WAAVSSHQPI
	KLASRDLSSE EMMMMSSSPS KPSSEMGGKM LVPQASVGSD EATLSMTVEN IPSMPKRTAK
	MIPTTTKNNY SPTAAGTERR KEDTPTSSRT LTYYTSTSSR QIVKKYTPTP RGEMKSYSPT
	QVREKVKYTP SPRGRRVGTY VPSTFMTMET SHAITPRTTV KDSDITATYK ILETNSLKRI
	MEETTPTTLK GMFDSTPTFL THEVEANVLT SPRSVMEKNN LFPPRRVESN SSAHPWGLVG
	KSNPKTPQGT VLLHTPATSE GQVTISTMTG SSPAETKAFT AAWSLRNPSP RTSVSAIKTA
	PAIVWRLAKK PSTAPSTSTT PTVRAKLTMQ VHHCVVVKPT PAMLTTPSPS LTTALLPEEL
	SPSPSVLPPS LPDLHPKGEY PPDLFSVEER RQGWVVLHVF GMMYVFVALA IVCDEYFVPA
	LGVITDKLQI SEDVAGATFM AAGGSAPELF TSLIGVFISH SNVGIGTIVG SAVFNILFVI GTCSLFSREI
	LNLTWWPLFR DVSFYILDLI MLILFFLDSL IAWWESLLLL LAYAFYVFTM KWNKHIEVWV
	KEQLSRRPVA KVMALEDLSK PGDGAIAVDE LQDNKKLKLP SLLTRGSSST SLHNSTIRST

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PDIKGDQKEN PGGQEDVAEA ESTGEMPGEE GETAGEGETE EKSGGETQPE GEGETETQGK
GEECEDENEA EGKGDNEGED EGEIHAEDGE MKGNEGETES QELSAENHGE AKNDEKGVED
GGGSDGGDSE EEEEEEQE EEEEEEQEE EEEEEEEE KGNEEPLSLD WPETRQKQAI
YLFLLPIVFP LWLTVPDVRR QESRKFFVFT FLGSIMWIAM FSYLMVWWAH QVGETIGISE
EIMGLTILAA GTSIPDLITS VIVARKGLGD MAVSSSVGSN IFDITVGLPV PWLLFSLING
LQPVPVSSNG LFCAIVLLFL MLLFVISSIA SCKWRMNKIL GFTMFLLYFV FLIISVMLED RIISCPVSV
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.

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:	SLC24A1
Alternative Name:	SLC24A1 (SLC24A1 Products)
Background:	Sodium/potassium/calcium exchanger 1 (Na(+)/K(+)/Ca(2+)-exchange protein 1) (Retinal rod
	Na-Ca+K exchanger) (Solute carrier family 24 member 1),FUNCTION: Calcium,
	potassium:sodium antiporter that transports 1 Ca(2+) and 1 K(+) in exchange for 4 Na(+)
	(PubMed:26631410). Critical component of the visual transduction cascade, controlling the
	calcium concentration of outer segments during light and darkness (PubMed:20850105). Light
	causes a rapid lowering of cytosolic free calcium in the outer segment of both retinal rod and
	cone photoreceptors and the light-induced lowering of calcium is caused by extrusion via this
	protein which plays a key role in the process of light adaptation (PubMed:20850105).
	{ECO:0000269 PubMed:20850105, ECO:0000269 PubMed:26631410}.
Molecular Weight:	121.4 kDa
UniProt:	060721
Pathways:	Phototransduction
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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protein production are removed, leaving only the protein production machinery and the
mitochondria to drive the reaction. During our lysate completion steps, the additional
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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