

Datasheet for ABIN3098169 SLC30A1 Protein (AA 1-507) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SLC30A1
Protein Characteristics:	AA 1-507
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC30A1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MGCWGRNRGR LLCMLALTFM FMVLEVVVSR VTSSLAMLSD SFHMLSDVLA LVVALVAERF
	ARRTHATQKN TFGWIRAEVM GALVNAIFLT GLCFAILLEA IERFIEPHEM QQPLVVLGVG
	VAGLLVNVLG LCLFHHHSGF SQDSGHGHSH GGHGHGHGLP KGPRVKSTRP GSSDINVAPG
	EQGPDQEETN TLVANTSNSN GLKLDPADPE NPRSGDTVEV QVNGNLVREP DHMELEEDRA
	GQLNMRGVFL HVLGDALGSV IVVVNALVFY FSWKGCSEGD FCVNPCFPDP CKAFVEIINS
	THASVYEAGP CWVLYLDPTL CVVMVCILLY TTYPLLKESA LILLQTVPKQ IDIRNLIKEL
	RNVEGVEEVH ELHVWQLAGS RIIATAHIKC EDPTSYMEVA KTIKDVFHNH GIHATTIQPE
	FASVGSKSSV VPCELACRTQ CALKQCCGTL PQAPSGKDAE KTPAVSISCL ELSNNLEKKP
	RRTKAENIPA VVIEIKNMPN KQPESSL
	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

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	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. 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

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Target Details	
Target:	SLC30A1
Alternative Name:	SLC30A1 (SLC30A1 Products)
Background:	Proton-coupled zinc antiporter SLC30A1 (Solute carrier family 30 member 1) (Zinc transporter 1),FUNCTION: Zinc ion:proton antiporter that could function at the plasma membrane mediating zinc efflux from cells against its electrochemical gradient protecting them from intracellular zinc accumulation and toxicity (PubMed:31471319). Alternatively, could prevent the transport to the plasma membrane of CACNB2, the L-type calcium channels regulatory subunit, through a yet to be defined mechanism. By modulating the expression of these channels at the plasma membrane, could prevent calcium and zinc influx into cells. By the same mechanism, could also prevent L-type calcium channels-mediated heavy metal influx into cells (By similarity). In some cells, could also function as a zinc ion:proton antiporter mediating zinc entry into the lumen of cytoplasmic vesicles. In macrophages, can increase zinc ions concentration into the lumen of cytoplasmic vesicles containing engulfed bacteria and could help inactivate them (PubMed:32441444). {ECO:0000250 UniProtKB:Q62720, ECO:0000269 PubMed:31471319, ECO:0000269 PubMed:32441444}.
Molecular Weight:	55.3 kDa
UniProt:	Q9Y6M5
Pathways:	Transition Metal Ion Homeostasis
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 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!

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Application Details

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