

Datasheet for ABIN3114853 SLC29A2 Protein (AA 1-456) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SLC29A2
Protein Characteristics:	AA 1-456
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC29A2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MARGDAPRDS YHLVGISFFI LGLGTLLPWN FFITAIPYFQ ARLAGAGNST ARILSTNHTG
	PEDAFNFNNW VTLLSQLPLL LFTLLNSFLY QCVPETVRIL GSLLAILLLF ALTAALVKVD
	MSPGPFFSIT MASVCFINSF SAVLQGSLFG QLGTMPSTYS TLFLSGQGLA GIFAALAMLL
	SMASGVDAET SALGYFITPC VGILMSIVCY LSLPHLKFAR YYLANKSSQA QAQELETKAE
	LLQSDENGIP SSPQKVALTL DLDLEKEPES EPDEPQKPGK PSVFTVFQKI WLTALCLVLV
	FTVTLSVFPA ITAMVTSSTS PGKWSQFFNP ICCFLLFNIM DWLGRSLTSY FLWPDEDSRL
	LPLLVCLRFL FVPLFMLCHV PQRSRLPILF PQDAYFITFM LLFAVSNGYL VSLTMCLAPR
	QVLPHEREVA GALMTFFLAL GLSCGASLSF LFKALL
	Sequence without tag. The proposed Strep-Tag is based on experience \ensuremath{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.

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Product Details

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

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Target:	SLC29A2
Alternative Name:	SLC29A2 (SLC29A2 Products)
Background:	Equilibrative nucleoside transporter 2 (hENT2) (36 kDa nucleolar protein HNP36) (Delayed-early
	response protein 12) (Equilibrative nitrobenzylmercaptopurine riboside-insensitive nucleoside
	transporter) (Equilibrative NBMPR-insensitive nucleoside transporter) (Hydrophobic nucleolar
	protein, 36 kDa) (Nucleoside transporter, ei-type) (Solute carrier family 29 member
	2),FUNCTION: Bidirectional uniporter involved in the facilitative transport of nucleosides and
	nucleobases, and contributes to maintaining their cellular homeostasis (PubMed:9396714,
	PubMed:9478986, PubMed:12527552, PubMed:10722669, PubMed:12590919,
	PubMed:21795683, PubMed:16214850). Functions as a Na(+)-independent, passive transporter
	(PubMed:9478986). Involved in the transport of nucleosides such as inosine, adenosine, uridine,
	thymidine, cytidine and guanosine (PubMed:9396714, PubMed:9478986, PubMed:12527552,
	PubMed:10722669, PubMed:12590919, PubMed:21795683, PubMed:16214850). Also able to
	transport purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases
	(thymine, uracil) (PubMed:21795683, PubMed:16214850). Involved in nucleoside transport at
	basolateral membrane of kidney cells, allowing liver absorption of nucleoside metabolites
	(PubMed:12527552). Mediates apical nucleoside uptake into Sertoli cells, thereby regulating the
	transport of nucleosides in testis across the blood-testis-barrier (PubMed:23639800). Mediates
	both the influx and efflux of hypoxanthine in skeletal muscle microvascular endothelial cells to
	control the amount of intracellular hypoxanthine available for xanthine oxidase-mediated ROS
	production (By similarity). {ECO:0000250 UniProtKB:054699, ECO:0000269 PubMed:10722669,
	EC0:0000269 PubMed:12527552, EC0:0000269 PubMed:12590919,
	EC0:0000269 PubMed:16214850, EC0:0000269 PubMed:21795683,
	EC0:0000269 PubMed:23639800, EC0:0000269 PubMed:9396714,
	ECO:0000269 PubMed:9478986}., FUNCTION: [Isoform 3]: Non functional nucleoside
	transporter protein for adenosine or thymidine transport. Does not express on cell membrane.
	{ECO:0000269 PubMed:12527552}.
Molecular Weight:	50.1 kDa
UniProt:	Q14542
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

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
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	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!
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