

Datasheet for ABIN3121536

SLC7A1 Protein (AA 1-622) (Strep Tag)



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Quantity:	250 μg
Target:	SLC7A1
Protein Characteristics:	AA 1-622
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details	
Brand:	AliCE®
Sequence:	MGCKNLLGLG QQMLRRKVVD CSREESRLSR CLNTYDLVAL GVGSTLGAGV YVLAGAVARE
	NAGPAIVISF LIAALASVLA GLCYGEFGAR VPKTGSAYLY SYVTVGELWA FITGWNLILS
	YIIGTSSVAR AWSATFDELI GKPIGEFSRQ HMALNAPGVL AQTPDIFAVI IIIILTGLLT
	LGVKESAMVN KIFTCINVLV LCFIVVSGFV KGSIKNWQLT EKNFSCNNND TNVKYGEGGF
	MPFGFSGVLS GAATCFYAFV GFDCIATTGE EVKNPQKAIP VGIVASLLIC FIAYFGVSAA
	LTLMMPYFCL DIDSPLPGAF KHQGWEEAKY AVAIGSLCAL STSLLGSMFP MPRVIYAMAE
	DGLLFKFLAK INNRTKTPVI ATVTSGAIAA VMAFLFELKD LVDLMSIGTL LAYSLVAACV
	LVLRYQPEQP NLVYQMARTT EELDRVDQNE LVSASESQTG FLPVAEKFSL KSILSPKNVE
	PSKFSGLIVN ISAGLLAALI ITVCIVAVLG REALAEGTLW AVFVMTGSVL LCMLVTGIIW
	RQPESKTKLS FKVPFVPVLP VLSIFVNIYL MMQLDQGTWV RFAVWMLIGF TIYFGYGIWH
	SEEASLAAGQ AKTPDSNLDQ CK

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).

Product Details Grade: custom-made **Target Details** Target: SLC7A1 Alternative Name Slc7a1 (SLC7A1 Products) Background: High affinity cationic amino acid transporter 1 (CAT-1) (CAT-1) (Ecotropic retroviral leukemia receptor) (Ecotropic retrovirus receptor) (ERR) (EcoR) (Solute carrier family 7 member 1) (System Y+ basic amino acid transporter), FUNCTION: High-affinity, low capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine) in nonhepatic tissues. {ECO:0000269|PubMed:1652100, ECO:0000269|PubMed:1908564, ECO:0000269|PubMed:9174363}., FUNCTION: (Microbial infection) Acts as a receptor for the ecotropic murine retroviral leukemia virus. {ECO:0000269|PubMed:1908564, ECO:0000269|PubMed:2541919}. Molecular Weight: 67.1 kDa UniProt: Q09143 Pathways: Dicarboxylic Acid 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. 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

Restrictions: For Research Use only

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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