

Datasheet for ABIN3134405 SLC1A5 Protein (AA 1-553) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SLC1A5
Protein Characteristics:	AA 1-553
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC1A5 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAVDPPKADP KGVAVDSSRR CPALGSREDQ SAKAGGCCGS RDRVRRCIRA NLLVLLTVAA
	VVAGVGLGLG VSAAGGADAL GPARLTRFAF PGELLLRLLK MIILPLVVCS LIGGAASLDP
	SALGRVGAWA LLFFLVTTLL ASALGVGLAL ALKPGAAVTA ITSINDSVVD PCARSAPTKE
	ALDSFLDLVR NIFPSNLVSA AFRSFATSYE PKDNSCKIPQ SCIQREINST MVQLLCEVEG
	MNILGLVVFA IVFGVALRKL GPEGELLIRF FNSFNDATMV LVSWIMWYAP VGILFLVASK
	IVEMKDVRQL FISLGKYILC CLLGHAIHGL LVLPLIYFLF TRKNPYRFLW GIMTPLATAF
	GTSSSSATLP LMMKCVEEKN GVAKHISRFI LPIGATVNMD GAALFQCVAA VFIAQLNGVS
	LDFVKIITIL VTATASSVGA AGIPAGGVLT LAIILEAVSL PVKDISLILA VDWLVDRSCT VLNVEGDAFG
	AGLLQSYVDR TKMPSSEPEL IQVKNEVSLN PLPLATEEGN PLLKQYQGPT GDSSATFEKE SVM
	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:	SLC1A5
Alternative Name:	Slc1a5 (SLC1A5 Products)
Alternative Name: Background:	SIc1a5 (SLC1A5 Products)Neutral amino acid transporter B(0) (ATB(0)) (ASC-like Na(+)-dependent neutral amino acid transporter ASCT2) (Insulin-activated amino acid transporter) (Sodium-dependent neutral amino acid transporter type 2) (Solute carrier family 1 member 5),FUNCTION: Sodium-coupled antiporter of neutral amino acids. In a tri-substrate transport cycle, exchanges neutral amino
	but uncoupled channel-like anion conductance with a preference SCN(-) >> NO3(-) > I(-) > Cl(-) (By similarity). Through binding of the fusogenic protein syncytin-1/ERVW-1 may mediate trophoblasts syncytialization, the spontaneous fusion of their plasma membranes, an essential process in placental development (By similarity). {ECO:0000250 UniProtKB:D3ZJ25, ECO:0000250 UniProtKB:Q15758, ECO:0000269 PubMed:7702599, ECO:0000269 PubMed:8662767}.
Molecular Weight:	58.5 kDa
UniProt:	P51912
Pathways:	Dicarboxylic Acid Transport, Warburg Effect
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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	During lysate production, the cell wall and other cellular components that are not required for
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	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

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