

Datasheet for ABIN3109964 ST8SIA3 Protein (AA 1-380) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ST8SIA3
Protein Characteristics:	AA 1-380
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST8SIA3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MRNCKMARVA SVLGLVMLSV ALLILSLISY VSLKKENIFT TPKYASPGAP RMYMFHAGFR
	SQFALKFLDP SFVPITNSLT QELQEKPSKW KFNRTAFLHQ RQEILQHVDV IKNFSLTKNS
	VRIGQLMHYD YSSHKYVFSI SNNFRSLLPD VSPIMNKHYN ICAVVGNSGI LTGSQCGQEI
	DKSDFVFRCN FAPTEAFQRD VGRKTNLTTF NPSILEKYYN NLLTIQDRNN FFLSLKKLDG
	AILWIPAFFF HTSATVTRTL VDFFVEHRGQ LKVQLAWPGN IMQHVNRYWK NKHLSPKRLS
	TGILMYTLAS AICEEIHLYG FWPFGFDPNT REDLPYHYYD KKGTKFTTKW QESHQLPAEF
	QLLYRMHGEG LTKLTLSHCA
	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:

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- 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:	ST8SIA3

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Target Details	
Alternative Name:	ST8SIA3 (ST8SIA3 Products)
Background:	Alpha-N-acetylneuraminate alpha-2,8-sialyltransferase ST8SIA3 (EC 2.4.3) (Alpha-2,8-
	sialyltransferase 8C) (Alpha-2,8-sialyltransferase III) (Ganglioside GD3 synthase ST8SIA3) (EC
	2.4.3.8) (ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3) (Sia-a2,3-Gal-b1,4-Glc-
	NAc-R:a2,8-sialyltransferase) (hST8Sia III) (Sialyltransferase 8C) (SIAT8-C) (Sialyltransferase
	St8Sia III) (ST8SiaIII),FUNCTION: Catalyzes the transfer of sialic acid from a CMP-linked sialic
	acid donor onto a terminal alpha-2,3-, alpha-2,6-, or alpha-2,8-linked sialic acid of an acceptor,
	such as N-linked oligosaccharides of glycoproteins and glycolipids through alpha-2,8-linkages
	(PubMed:9826427, PubMed:26192331, PubMed:10766765). Forms oligosialic and polysialic
	acid on various sialylated N-acetyllactosamine oligosaccharides of glycoproteins, including
	FETUB N-glycans, a2-HS-glycoprotein (AHSG) and alpha 2,3-sialylated glycosphingolipids, such
	as alpha 2,3-sialylparagloboside and ganglioside GM3 and to a lesser extent NCAM1 N-glycans
	(PubMed:9826427, PubMed:10766765). However, it is much more specific to N-linked
	oligosaccharides of glycoproteins than glycosphingolipids (By similarity). 2,3-
	sialylparagloboside serves as the best acceptor substrate among the glycolipids (By similarity).
	alpha-Neu5Ac-(2->8)-alpha-Neu5Ac-(2->3)-beta-D-Gal-(1->4)-6S-D-GlcNAc and monosialyl and
	disialyl N-acetyllactosamines are the best acceptor substrates among glycoproteins
	(PubMed:26192331, PubMed:10766765). May plays critical role in the striatum by mediating
	the formation of disialylated and trisialylated terminal glycotopes on N- and O-glycans of
	specific striatal proteins, regulating their distribution in lipid rafts, affecting their interaction with
	other binding partners, and subsequently modulating striatal functions (By similarity).
	{EC0:0000250 UniProtKB:Q64689, EC0:0000269 PubMed:10766765,
	ECO:0000269 PubMed:26192331, ECO:0000269 PubMed:9826427}.
Molecular Weight:	44.0 kDa
UniProt:	043173
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

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