

Datasheet for ABIN3095653

STXBP5L Protein (AA 1-1186) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	STXBP5L
Protein Characteristics:	AA 1-1186
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STXBP5L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MKKFNFRKVL DGLTASSPGS GSSSGSNSGG GAGSGSVHPA GTAGVLREEI QETLTSEYFQ</p> <p>ICKTVRHGFP HQPTALAFDP VQKILAIGTR TGAIRILGRP GVDCYQCQES GAAVLQLQFL</p> <p>INEGALVSAS SDDTLHLWNL RQKRPAIHLS LKFNRRERITY CHLPFQSKWL YVGTERGNTH</p> <p>IVNIESFILS GYVIMWNKAI ELSTKTHPGP VVHLSDSPRD EGKLLIGYEN GTVVFWDLKS</p> <p>KRAELRVYYD EAIHSIDWHH EGKQFMCSHS DGSLTLWNLK SPSRPFQTTI PHGKSQREGR</p> <p>KSECKPILK VEYKTCKNSE PFIIFSGGLS YDKACRRPSL TIMHGKAITV LEMDHPIVEF</p> <p>LTLCEPYPN EFQEPYAVVV LLEKDLIVVD LTQSNFPIFE NPYPMDIHES PVTCTAYFAD</p> <p>CPPDLILVLY SIGVKHKKQG YSNKEWPISG GAWNLAGQTY PEIITGHAD GSIKFWDASA</p> <p>ITLQMLYKLK TSKVFEKQKV GEGKQTCEIV EEDPFAIQMI YWCPESRIFC VSGVSAYVII</p> <p>YKFSRHEITT EIVSLEVLRLQ YDVEDIITPE PETSPPPFDL SAQLPSSRSL SGSTNTVASE</p> <p>GVTKDSIPCL NVKTRPVRMP PGYQAELEVIQ LVWVDGEPPQ QITSLAVSSA YGIVAFGNCR</p>

GLAVVDFIQK TVLLSMGTID LYRSSDLYQR QPRSPRKNKQ FIADNFCMRG LSNFYDPDLTK
RIRTSYQSLT ELNDSPVPLE LERCKSPTSD HVNGHCTSPT SQSCSSGKRL SSADVSKVNR
WGPGRPPFRK AQSAACMEIS LPVTTEENRE NSYNRSRSSH ISSIDKDSKE AITALYFMDS
FARKNDSTIS PCLFVGTSLG MVLIISLNLP LADEQRFTPE VMVLPSTGTF SLKGAVLTFS
CMDRMGGLMQ PPYEVWRDPN NIDENEKSWR RKVVMNSSSA SQEIGDHQYT IICSEKQAKV
FSLPSQTCLY VHNITETSEFI LQANVVVMCS SACLACFCAN GHIMIMSLPS LRPMLDVNYL
PLTDMRIART FCFTNEGQAL YLVSPTEIQR LTYSQEMCDN LQDMLGDLFT PIETPEAQNR
GFLKGLFGGS GQTFDREELF GEASAGKASR SLAQHIPGPG SIEGMKGAAG GVMGELTRAR
IALDERGQRL GELEEKTAGM MTSAEAFSKH AHMLMLKYKD KKWYQF

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 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!

Product Details

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: STXBP5L

Alternative Name: STXBP5L ([STXBP5L Products](#))

Background: Syntaxin-binding protein 5-like (Lethal(2) giant larvae protein homolog 4) (Tomosyn-2),FUNCTION: Plays a role in vesicle trafficking and exocytosis inhibition. In pancreatic beta-cells, inhibits insulin secretion probably by interacting with and regulating STX1A and STX4, key t-SNARE proteins involved in the fusion of insulin granules to the plasma membrane. Also plays a role in neurotransmitter release by inhibiting basal acetylcholine release from axon terminals and by preventing synaptic fatigue upon repetitive stimulation (By similarity). Promotes as well axonal outgrowth (PubMed:25504045). {ECO:0000250|UniProtKB:Q5DQR4, ECO:0000269|PubMed:25504045}.

Molecular Weight: 131.9 kDa

UniProt: [Q9Y2K9](#)

Pathways: [Negative Regulation of Hormone Secretion, Carbohydrate 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

Application Details

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