

Datasheet for ABIN3095727

STXBP5 Protein (AA 1-1151) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	STXBP5
Protein Characteristics:	AA 1-1151
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STXBP5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MRKFNIRKVL DGLTAGSSSA SQQQQQQHPP GNREPEIQET LQSEHFQLCK TVRHGFPYQP</p> <p>SALAFDPVQK ILAVGTQTGA LRLFGRPGVE CYCQHDSGAA VIQLQFLINE GALVSALADD</p> <p>TLHLWNLRQK RPAILHSLKF CRERVTFCHL PFQSKWLYVG TERGNIHIVN VESFTLSGYV</p> <p>IMWNKAIELS SKSHPGPVVH ISDNPMDEGK LLIGFESGTV VLWDLKSKKA DYRYTYDEAI</p> <p>HSVAVHHHEGK QFICSHSDGT LTIWNVRSAP KPVQTITPHG KQLKDGKKPE PCKPILKVEF</p> <p>KTTRSGEPFI ILSGGLSYDT VGRRPCLTVM HGKSTAVLEM DYSIVDFLTL CETPYPNDFQ</p> <p>EPYAVVLLLE KDLVLIDLAQ NGYPIFENPY PLSIHESPTV CCEYFADCPV DLIPALYSVG</p> <p>ARQKRQGYSK KEWPINGGNW GLGAQSYPEI IITGHADGSV KFWDasAITL QVLYKLKTSK</p> <p>VFEKSRNKDD RPNTDIVDED PYAIQIISWC PESRMLCIAG VSAHVIIYRF SKQEVITEVI</p> <p>PMLEVRLLYE INDVETPEGE QPPPLPTPVG GSNPQPIPPQ SHPSTSSSSS DGLRDNVPCL</p> <p>KVKNSPLKQS PGYQTELVIQ LVWVGGEPPQ QITSLAVNSS YGLVVFGNCN GIAMVDYLQK</p>

AVLLNLGTIE LYGSNDPYRR EPRSPRKSQR PSGAGLCDIS EGTVPEDRC KSPTSGSSSP
HNSDDEQKMN NFIEKVTKS RKFSKMVAND IAKMSRKLSL PTDLKPDLVD KDNFSRSRS
SSVTSIDKES REAISALHFC ETFTRKTDSS PSPCLWVGTT LGTVLVIALN LPPGGEQRL
QPVIVSPSGT ILRLKGAILR MAFLDTTGCL IPPAYEPWRE HNVPEEKDEK EKLKKRRPVS
VSPSSSQEIS ENQYAVICSE KQAKVISLPT QNCAYKQNT ETSFVLRGDI VALSNSICLA
CFCANGHIMT FSLPSLRPLL DVYYLPLTNM RIARTFCFTN NGQALYLVSP TEIQRITYSQ
ETCENLQEML GELFTPVETP EAPNRGFFKG LFGGGAQSLD REELFGESSS GKASRSLAQH
IPGPGGIEGV KGAASGVVGE LARARLALDE RGQKLGDL EE RTAAMLSSAE SFSKHAHEIM
LKYKDKKWWYQ F

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: STXBP5

Alternative Name: STXBP5 ([STXBP5 Products](#))

Background: Syntaxin-binding protein 5 (Lethal(2) giant larvae protein homolog 3) (Tomosyn-1),FUNCTION: Plays a regulatory role in calcium-dependent exocytosis and neurotransmitter release. Inhibits membrane fusion between transport vesicles and the plasma membrane. May modulate the assembly of trans-SNARE complexes between transport vesicles and the plasma membrane. Inhibits translocation of GLUT4 from intracellular vesicles to the plasma membrane. Competes with STXBP1 for STX1 binding (By similarity). {ECO:0000250}.

Molecular Weight: 127.6 kDa

UniProt: [Q5T5C0](#)

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

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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