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Datasheet for ABIN3135170

STXBP5L Protein (AA 1-1185) (Strep Tag)

Overview

Quantity:	1 mg
Target:	STXBP5L
Protein Characteristics:	AA 1-1185
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STXBP5L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MKKFNFRKVL DGLTASSPGS GSSSGSNSGG AGSGSVHPGG TAGLPREEIQ ESLTSDYFQI CKTVRHGFPY QPTALAFDPV QKILAIGTRT GAIRILGRPG VDCYQCQHESG AAVLQLQFLI NEGALVSASS DDTLHLWNL RQRPAILHSL KFNRRITYC HLPFQSKWLY VGTERGNTHI VNIESFILSG YVIMWNKAIE LSTKTHPGPV VHLSDSPRDE GKLLIGYENG TVVFWDLKSK RAELRVYYDE AIHSIDWHHE GKQFMC SHSD GSLTLWNLKS PSRPFQTTVP HGKSQREGRK SECKPILKV EYKTCRNSEP FIIFSGGLSY DKACRRPSLT IMHGKAITVL EMDHPIVEFL TLCETPYPNE FQEPYAVAVL LEKDLIVVDL TQTNFPIFEN PYPMDIHESP VTCTAYFADC PPDLILVLYS IGVKHKKQGY SNKEWPVSGG AAWN LGAQ TYP EIITGHADG TIKFWDASAM TLQMLYKLKT SKVFEKQKAG EGKQTCELVE EDPFAVQMIY WCPESRIFCV SGVSAYVIIY KFSRHEVTTE IVSLEVRLQC DVEDIITPEP ETSPFPDLS SQLPPSRSL S GSTNTVSSEG VTKDSIPCLS VKTRPV RMPP GYQADLVIQL VVVDGEPPQQ ITSLSISSAY GIVAFGNCTG LVVVDIFIQKT VLLSMGTIDL YRSSDLYQRQ PRSPRKNRQF IADNFCMRGL SNFYPDLT KR</p>
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IRTSYQSLTE LNDSPVPLEL ERCKSPTSDH VNGHCTSP TS QSCSSGKRLS SADVSKVNRW
GPGRPPFRKA QSAACMEISL PVTTEETREN SYNRSRSSSI SSIDKDSKEA ITALYFMESF
ARKNDSTVSP CLFVGTSLGM VVLISLNLP SDEQRFTEPV VVLPSTGFLS LKGAVLTFSC
MDRTGSLMQP PYEVWRDPNN TDENEKTWKR KLV MNYS SSS QEMGDHQYTI ICSEKQAKVF
SLPSQTCLYV HNITETSFIL QADVVMCNS ACLACFCANG HIMIMSLPSL RPMLDVNYLP
LTDMRIARTF CFTNEGQALY LVSPTEIQL TYSQEMCDNI QDMLGDLFTP IETPEAQNRG
FLKGLFGGSG QTFDREELFG EASAGKASRS LAQHIPGPGS IEGMKGAAGG VMGELTRARI
ALDERGQRLG ELEEKTAGMM TSAEAFSKHA HELMLKYKDK KWYQF

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Crystallography grade

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 (PubMed:25002582). 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 (PubMed:21998599). Also plays a role in neurotransmitter release by inhibiting basal acetylcholine release from axon terminals and by preventing synaptic fatigue upon repetitive stimulation (PubMed:24744148). Promotes as well axonal outgrowth (By similarity). {ECO:0000250|UniProtKB:Q9Y2K9, ECO:0000269|PubMed:21998599, ECO:0000269|PubMed:24744148, ECO:0000269|PubMed:25002582}.

Molecular Weight:

131.8 kDa

UniProt:

[Q5DQR4](#)

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.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)