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Datasheet for ABIN3095690

STIL Protein (AA 1-1287) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	STIL
Protein Characteristics:	AA 1-1287
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STIL protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MEPIYPFARP QMNTRFPSSR MVPFHFPSSK CALWNPTPTG DFIYLHLSYY RNPKLVVTEK
TIRLAYRHAK QNKKNSSCFL LGSLTADEDE EGVTLTVDRF DPGREVPECL EITPTASLPG
DFLIPCKVHT QELCSREMIV HSVDDFSSAL KALQCHICKS DSLDCGKLLS LRVHITSRES
LDSVEFDLHW AAVTLANNFK CTPVKPIII PTALARNLSS NLNISQVQGT YKYGYLTMDE
TRKLLLLLES DPKVYSLPLV GIWLSGITHI YSPQVWACCL RYIFNSSVQE RVFSESGNFI
IVLYSMTHKE PEFYECFPCD GKIPDFRFQL LTSKETLHLF KNVEPPDKNP IRCELSAESQ
NAETEFFSKA SKNFSIKRSS QKLSSGKMPI HDHDSGVEDE DFSPRPIPSP HPVSQKISKI
QPSVPELSLV LDGNFIESNP LPTPLEMVNN ENPPLINHLE HLKPLQPQLY DEKHSPEVEA
GEPSLRGIPN QLNQDKPALL RHCKVRQPPA YKKGPNPHTRN SIKPSSHNGP SHDIFEKLQT
VSAGNVQNEE YPIRPSTLNS RQSSLAPQSQ PHDFVFSPHN SGRPMELQIP TPPLPSYCST
NVCRCQHHHS HIQYSPLNSW QGANTVGSIQ DVQSEALQKH SLFHPSGCPA LYCNAFCSSS
SPIALRPQGD MGSCSPHSNI EPSPVARPPS HMDLCPNPQC TVCMHTPKTE SDNGMMGLSP

DAYRFLTEQD RQLRLLQAQI QRLLEAQSLM PCSPKTTAVE DTVQAGRQME LVSVEAQSSP
GLHMRKGVSI AVSTGASLFW NAAGEDQEPD SQMKQDDTKI SSED MNFSVD INNEVTSLPG
SASSLKAVDI PSFEESNIAV EEEFNQPLSV SNSSLVVRKE PDVPVFFPSG QLAESVSMCL
QTGPTGGASN NSETSEEPKI EHVMQPLLHQ PSDNQKIYQD LLGQVNHLLN SSSKETEQPS
TKAVIISHEC TRTQNVYHTK KKTHHSRLVD KDCVLNATLK QLRSLGVKID SPTKVKKNAH
NVDHASVLAC ISPEAVISGL NCMSFANVGM SGLSPNGVDL SMEANAIALK YLNENQLSQL
SVTRSNQNNC DPFSL LHINT DRSTVGLSLI SPNNMSFATK KYMKRYGLLQ SSDNSEDEEE
PPDNADSKSE YLLNQNLRSI PEQLGGQKEP SKNDHEIINC SNCESVGTNA DTPVLRNITN
EVLQTKAKQQ LTEKPAFLVK NLKPSPAVNL RTGKAEFTQH PEKENECDIT IFPESLQPSE
TLKQMNSMNS VGTFLDVKRL RQLPKLF

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 -

Product Details

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 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®): <ol style="list-style-type: none">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:	STIL
Alternative Name:	STIL (STIL Products)
Background:	SCL-interrupting locus protein (TAL-1-interrupting locus protein),FUNCTION: Immediate-early gene. Plays an important role in embryonic development as well as in cellular growth and proliferation, its long-term silencing affects cell survival and cell cycle distribution as well as decreases CDK1 activity correlated with reduced phosphorylation of CDK1. Plays a role as a positive regulator of the sonic hedgehog pathway, acting downstream of PTCH1 (PubMed:16024801, PubMed:9372240). Plays an important role in the regulation of centriole duplication. Required for the onset of procentriole formation and proper mitotic progression. During procentriole formation, is essential for the correct loading of SASS6 and CENPJ to the base of the procentriole to initiate procentriole assembly (PubMed:22020124). In complex with STIL acts as a modulator of PLK4-driven cytoskeletal rearrangements and directional cell motility (PubMed:32107292, PubMed:29712910). {ECO:0000269 PubMed:16024801,

Target Details

ECO:0000269|PubMed:22020124, ECO:0000269|PubMed:29712910,
ECO:0000269|PubMed:32107292, ECO:0000269|PubMed:9372240}.

Molecular Weight: 143.0 kDa

UniProt: [Q15468](#)

Pathways: [Tube Formation](#)

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.

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. 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)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process