Datasheet for ABIN3135331

STIL Protein (AA 1-1262) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	STIL
Protein Characteristics:	AA 1-1262
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
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:	MNTRFPSSKM VPFHFPPSKL ALWNPMPIGE CIYLHLSYYR KPKLMVTEKA IRLAYRHAKQ NKKNVPCFLL GSLTVDEDEE GVTLTIDRFD PGREIPECLE RTPTASLPGD FLIPCRVHIQ GLGSRDVIVH NADDFSSALK ALQYHVCSKD FLDCGKLLCL RAQITPRESL DGVDFNLQWT AVTLANSFKC VPVKPIPIIP TALARNLSSN LNISQVQGTY KHGYITMDET RKLLLLLQSD PKVSSLPLVG IWLAGIIHVY SPQVWACCLR YMFSSSIQER VFSESGNFII VLYSLTHKEP EFYECLPCES RTPDLQFQLL TNKETLHLFN NVEPSGKNPI HFELSAESQD AEAEAEVLSK ISKTLPVKRS SQKLSPGKIP INKHDTDLED EDFSPRPIPS PHPVSQKISK VQPSVPELSL VLDNNFTESS NQSNPLEMMT VENPLLIKPS QPELCDAKHS SEATTGEPFR RGPTNQLSQD TALRQSRGKQ SSTCKKESLQ FRNTNAKPSL SVPSPDVAEK LQAVSAGSMQ KEDYPVRPST LDSRQPSLAP QAQPHNLVFS THNSTRPMEL QVPTPSLPSY YPTNVCSCCQ HHGHIQYSTI NSWQGNTVGS IQDLRSESLP KHAFFHSSGC PSLCPNAIYS SSSPVSMKQG GMGAYSPHSN GEPSPVAGPS HVDSCVPHPC AMCMHTPNTA PDNGMMGLSP DAYRFVTEQD RQLRLLQAQI

QRLLEAQSLD PGSHKTVATV EDTVKAAKQM ELVSMEAQSS PGLHMRKSVS IAVSTGASLF WNAAGDDQEP DSQPKQDDTK ISSEDMNFSV DINNEATSLP GSASSLKAVD IPSFEESNLA VEEVNQPLPE SNSSSEQSKE PGVPVFFPNA LLAESVSMCL QTAPTEGASN STELPQGTKD EPYRPSDNQK IYQDLLGQVN HLLSNASQET EEPPTKAVVT NRECAKTQNT HHARKKRHNS GLVDKDCVLS ATIKQLRSLG VKIDSPTKVK KNEQKVDHAS VLACISPEAV ISGLNYMSFG NVGMSSLSPT GVDLSMEANA IALKYLSENQ LSQLSLARSK QNNGDSSVGL LHINSDRSTV GLSLVSPSNM SFATKKYMKR YGLLQSSDNS EDEEEPPSHA DSESDHVLNR NPACRPVQCG HEKEPSWNAC EIAQCSDCGS ADTRTDVPVL RNITNQAVQP RATEHLNEDS AISLRNLKPN PAMNLRTGKA EFTHHPEKEN ERDIAVFPGT LPSPETLKQM NSMDSVGTFL DVKRLRQLPK LF

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!

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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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	STIL
Alternative Name:	Stil (STIL Products)
Background:	SCL-interrupting locus protein homolog,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. 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 (By similarity). In complex with STIL acts as a modulator of PLK4-driven cytoskeletal rearrangements and directional cell motility (By similarity). {ECO:0000250|UniProtKB:Q15468, ECO:0000269|PubMed:10385121, ECO:0000269|PubMed:11668681, ECO:0000269|PubMed:8825637}.
Molecular Weight:	138.7 kDa
UniProt:	Q60988
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.

Application Details

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)

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