Datasheet for ABIN3095694

Strumpellin Protein (AA 1-1159) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	Strumpellin (WASHC5)
Protein Characteristics:	AA 1-1159
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Strumpellin protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MLDFLAENNL CGQAILRIVS CGNAIIAELL RLSEFIPAVF RLKDRADQQK YGDIIFDFSY FKGPELWESK LDAKPELQDL DEEFRENNIE IVTRFYLAFQ SVHKYIVDLN RYLDDLNEGV YIQQTLETVL LNEDGKQLLC EALYLYGVML LVIDQKIEGE VRERMLVSYY RYSAARSSAD SNMDDICKLL RSTGYSSQPG AKRPSNYPES YFQRVPINES FISMVIGRLR SDDIYNQVSA YPLPEHRSTA LANQAAMLYV ILYFEPSILH THQAKMREIV DKYFPDNWVI SIYMGITVNL VDAWEPYKAA KTALNNTLDL SNVREQASRY ATVSERVHAQ VQQFLKEGYL REEMVLDNIP KLLNCLRDCN VAIRWLMLHT ADSACDPNNK RLRQIKDQIL TDSRYNPRIL FQLLLDTAQF EFILKEMFKQ MLSEKQTKWE HYKKEGSERM TELADVFSGV KPLTRVEKNE NLQAWFREIS KQILSLNYDD STAAGRKTVQ LIQALEEVQE FHQLESNLQV CQFLADTRKF LHQMIRTINI KEEVLITMQI VGDLSFAWQL IDSFTSIMQE SIRVNPSMVT KLRATFLKLA SALDLPLLRI NQANSPDLLS VSQYYSGELV SYVRKVLQII PESMFTSLLK IIKLQTHDII EVPTRLDKDK LRDYAQLGPR YEVAKLTHAI SIFTEGILMM KTTLVGIIKV DPKQLLEDGI RKELVKRVAF

ALHRGLIFNP RAKPSELMPK LKELGATMDG FHRSFEYIQD YVNIYGLKIW QEEVSRIINY NVEQECNNFL RTKIQDWQSM YQSTHIPIPK FTPVDESVTF IGRLCREILR ITDPKMTCHI DQLNTWYDMK THQEVTSSRL FSEIQTTLGT FGLNGLDRLL CFMIVKELQN FLSMFQKIIL RDRTVQDTLK TLMNAVSPLK SIVANSNKIY FSAIAKTQKI WTAYLEAIMK VGQMQILRQQ IANELNYSCR FDSKHLAAAL ENLNKALLAD IEAHYQDPSL PYPKEDNTLL YEITAYLEAA GIHNPLNKIY ITTKRLPYFP IVNFLFLIAQ LPKLQYNKNL GMVCRKPTDP VDWPPLVLGL LTLLKQFHSR YTEQFLALIG QFICSTVEQC TSQKIPEIPA DVVGALLFLE DYVRYTKLPR RVAEAHVPNF IFDEFRTVL

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:	Strumpellin (WASHC5)
Alternative Name:	WASHC5 (WASHC5 Products)
Background:	WASH complex subunit 5 (Strumpellin) (WASH complex subunit strumpellin),FUNCTION: Acts as a component of the WASH core complex that functions as a nucleation-promoting factor (NPF) at the surface of endosomes, where it recruits and activates the Arp2/3 complex to induce actin polymerization, playing a key role in the fission of tubules that serve as transport intermediates during endosome sorting (PubMed:19922875, PubMed:20498093). May be involved in axonal outgrowth. Involved in cellular localization of ADRB2 (PubMed:23085491). Involved in cellular trafficking of BLOC-1 complex cargos such as ATP7A and VAMP7 (PubMed:23676666). {ECO:0000269|PubMed:19922875, ECO:0000269|PubMed:20833645, ECO:0000269|PubMed:23085491, ECO:0000269|PubMed:23676666}.
Molecular Weight:	134.3 kDa
UniProt:	Q12768

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

