Datasheet for ABIN3092575

FKBP15 Protein (AA 1-1219) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	FKBP15
Protein Characteristics:	AA 1-1219
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FKBP15 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MFGAGDEDDT DFLSPSGGAR LASLFGLDQA AAGHGNEFFQ YTAPKQPKKG QGTAATGNQA TPKTAPATMS TPTILVATAV HAYRYTNGQY VKQGKFGAAV LGNHTAREYR ILLYISQQQP VTVARIHVNF ELMVRPNNYS TFYDDQRQNW SIMFESEKAA VEFNKQVCIA KCNSTSSLDA VLSQDLIVAD GPAVEVGDSL EVAYTGWLFQ NHVLGQVFDS TANKDKLLRL KLGSGKVIKG WEDGMLGMKK GGKRLLIVPP ACAVGSEGVI GWTQATDSIL VFEVEVRRVK FARDSGSDGH SVSSRDSAAP SPIPGADNLS ADPVVSPPTS IPFKSGEPAL RTKSNSLSEQ LAINTSPDAV KAKLISRMAK MGQPMLPILP PQLDSNDSEI EDVNTLQGGG QPVVTPSVQP SLHPAHPALP QMTSQAPQPS VTGLQAPSAA LMQVSSLDSH SAVSGNAQSF QPYAGMQAYA YPQASAVTSQ LQPVRPLYPA PLSQPPHFQG SGDMASFLMT EARQHNTEIR MAVSKVADKM DHLMTKVEEL QKHSAGNSML IPSMSVTMET SMIMSNIQRI IQENERLKQE ILEKSNRIEE QNDKISELIE RNQRYVEQSN LMMEKRNNSL QTATENTQAR VLHAEQEKAK VTEELAAATA QVSHLQLKMT AHQKKETELQ MQLTESLKET DLLRGQLTKV QAKLSELQET SEQAQSKFKS EKQNRKQLEL

KVTSLEEELT DLRVEKESLE KNLSERKKKS AQERSQAEEE IDEIRKSYQE ELDKLRQLLK KTRVSTDQAA AEQLSLVQAE LQTQWEAKCE HLLASAKDEH LQQYQEVCAQ RDAYQQKLVQ LQEKCLALQA QITALTKQNE QHIKELEKNK SQMSGVEAAA SDPSEKVKKI MNQVFQSLRR EFELEESYNG RTILGTIMNT IKMVTLQLLN QQEQEKEESS SEEEEEKAEE RPRRPSQEQS ASASSGQPQA PLNRERPESP MVPSEQVVEE AVPLPPQALT TSQDGHRRKG DSEAEALSEI KDGSLPPELS CIPSHRVLGP PTSIPPEPLG PVSMDSECEE SLAASPMAAK PDNPSGKVCV REVAPDGPLQ ESSTRLSLTS DPEEGDPLAL GPESPGEPQP PQLKKDDVTS STGPHKELSS TEAGSTVAGA ALRPSHHSQR SSLSGDEEDE LFKGATLKAL RPKAQPEEED EDEVSMKGRP PPTPLFGDDD DDDDIDWLG

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:	FKBP15
Alternative Name:	FKBP15 (FKBP15 Products)
Background:	FK506-binding protein 15 (FKBP-15) (133 kDa FK506-binding protein) (133 kDa FKBP) (FKBP-133) (WASP- and FKBP-like protein) (WAFL),FUNCTION: May be involved in the cytoskeletal organization of neuronal growth cones. Seems to be inactive as a PPIase (By similarity). Involved in the transport of early endosomes at the level of transition between microfilament-based and microtubule-based movement. {ECO:0000250, ECO:0000269|PubMed:19121306}.
Molecular Weight:	133.6 kDa
UniProt:	Q5T1M5
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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

