

Datasheet for ABIN3096430
ZFYVE16 Protein (AA 1-1539) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	ZFYVE16
Protein Characteristics:	AA 1-1539
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFYVE16 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MDSYFKA AVS DLDKLLDDFE QNPDEQDY LQ DVQNA YDSNH CSVSSE LASS QRTSLLPKDQ
 ECVNSCASSE TSYGTNESSL NEKTLKGLTS IQNEKNVTGL DLLSSVDGGT SDEIQPLYMG
 RCSKPICDLI SDMGNLVHAT NSEEDIKLL PDDFKSNADS LIGLDLSSVS DTPCVSSTDH
 DSDTVREQQN DISSELQ NRE IGGIKELGIK VDTT LSDSYN YSGTENLKDK KIFNQLESIV
 DFNMSSALTR QSSKMFHAKD KLQHKSQPCG LLKDVGLVKE EVDVAVITAA ECLKEEGKTS
 ALTCSLPKNE DLCLNDSNSR DENFKLPDFS FQEDKTVIKQ SAQEDSKSLD LKDNDVIQDS
 SSALHVSSKD VPSSL SCLPA SGSMCGSLIE SKARGDFLPQ HEHKDNIQDA VTIHEEIQNS
 VVLGGEPFKE NDLLKQEKCK SILLQSLIEG MEDRKIDPDQ TVIRAESLDG GDTSSSTVVE
 QEGLSGTHVP ESSDCCEGFI NTFSSNDMDG QLDLYFNIDE GAKSGPLISD AELDAFLTEQ
 YLQTTNIKSF EENVNDSK SQ MNQIDMKGLD DGNINNIYFN AEAGAIGESH GINIICEIVD
 KQNTIENGLS LGEKSTIPVQ QGLPTSKSEI TNQLSVSDIN SQSVGGARPK QLFSLPSRTR
 SSKDLNKPDV PDTIESEPST ADTVVPITCA IDSTADPQVS FNSNYIDIES NSEGGSSFVT

ANEDSVPEPT CKEGLVLGQK QPTWVPDSEA PNCMNCQVKF TFTKRRHHCR ACGKVFCGVC
CNRKCKLQYL EKEARVCVVC YETISKAQAF ERMMSPTGSN LKSNHSDECT TVQPPQENQT
SSIPSPATLP VSALKQPGVE GLCSKEQKRV WFADGILPNG EVADTTKLSS GSKRCSEDFS
PLSPDVPM TV NTVDHSHSTT VEKPNNETGD ITRNEIIQSP ISQVPSVEKL SMNTGNEGLP
TSGSFTLDDD VFAETEPPSS PTGVLVNSNL PIASISDYRL LCDINKYVCN KISLLPNDED
SLPPLLVASG EKGSPVVEE HPSHEQIILL LEGESFHPVT FVLNANLLVN VKFIFYSSDK
YWFSTNGLH GLGQAEIILL LLCLPNEDTI PKDIFRLFIT IYKDALKGKY IENLDNITFT ESFLSSKDHG
GFLFITPTFQ KLDDLSLPSN PFLCGILIQK LEIPWAKVFP MRLMLRLGAE YKAYPAPLTS
IRGRKPLFGE IGHTIMNLLV DLRNYQYTLH NIDQLLIHME MGKSCIKIPR KKYSVDMKVL
NSSNEHVISI GASFSTEADS HLCIQNDGI YETQANSATG HPRKVTGASF VVFNKALKTS
SGFLAKSSIV EDGLMVQITP ETMNGRLAL REQKDFKITC GKVDAVDLRE YVDICWVDAE
EKGNKGVISS VDGISLQGF SEKIKLEADF ETDEKIVKCT EVFYFLKDQD LSILSTSYQF
AKEIAMACSA ALCPHLKTLK SNGMKNIGLR VSIDTDMVEF QAGSEGQLLP QHYLNDLDSA
LIPVIHGGTS NSSLPLEIEL VFFIIEHLF

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.

Product Details

- 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!

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:	ZFYVE16
Alternative Name:	ZFYVE16 (ZFYVE16 Products)
Background:	Zinc finger FYVE domain-containing protein 16 (Endofin) (Endosome-associated FYVE domain protein),FUNCTION: May be involved in regulating membrane trafficking in the endosomal pathway. Overexpression induces endosome aggregation. Required to target TOM1 to endosomes. {ECO:0000269 PubMed:11546807, ECO:0000269 PubMed:14613930}.
Molecular Weight:	168.9 kDa
UniProt:	Q7Z3T8

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