

Datasheet for ABIN3075929

ZFYVE1 Protein (AA 1-777) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ZFYVE1
Protein Characteristics:	AA 1-777
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZFYVE1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MSAQTSPA EK GLNPGLMCQE SYACSGTDEA IFECDECCSL QCLRCEEELH RQERLRNHER</p> <p>IRLKPGHVPY CDLCKGLSGH LPGVRQRAIV RCQTCKINLC LECQKRTHSG GNKRRHPVTV</p> <p>YNVSNLQESL EAEEMDEETK RKKMTEKVVS FLLVDENEEI QVTNEEDFIR KLDCKPDQHL</p> <p>KVVSIFGNTG DGKSHTLNHT FFYGREVFKT SPTQESCTVG VWAAYDPVHK VAVIDTEGLL</p> <p>GATVNLSQRT RLLLKVLAIS DLVIYRTHAD RLHNDLFKFL GDASEAYLKH FTKELKATTA</p> <p>RCGLDVPLST LGPAVIFHE TVHTQLLGSD HPSEVPEKLI QDRFRKLGRF PEAFFSSIHVK</p> <p>GTRTYNPPTD FSGLRRALEQ LLENNTTRSP RHPGVIFKAL KALSDRFSGE IPDDQMAHSS</p> <p>FFPDEYFTCS SLCLSCGVGC KKS MNHGKEG VPHEAKSRCR YSHQYDNRVY TCKACYERGE</p> <p>EVSVPK TSA STDSPWMGLA KYAWSGYVIE CPNCGVVYRS RQYWFGNQDP VDTVVRTEIV</p> <p>HVWPGTDGFL KDNNNAAQRL LDGMNFMAQS VSELSLGPTK AVTSWLTDQI APAYWRPNSQ</p> <p>ILSCNKCATS FKDNNDTKHHC RACGEGFCDS CSSKTRPVPE RGWGPAPVRV CDNCYEARNV</p>

QLAVTEAQVD DEGGTLIARK VGEAVQNTLG AVVTAIDIPL GLVKDAARPA YWVPDHEILH
CHNCRKEFSI KLSKHHCRAC GQGFCDECSH DRRVPSRGW DHPVRVCFNC NKKPGDL

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!

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®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: ZFYVE1

Alternative Name: ZFYVE1 ([ZFYVE1 Products](#))

Background: Zinc finger FYVE domain-containing protein 1 (Double FYVE-containing protein 1) (SR3) (Tandem FYVE fingers-1),FUNCTION: Plays a role in the formation of lipid droplets (LDs) which are storage organelles at the center of lipid and energy homeostasis (PubMed:30970241). Regulates the morphology, size and distribution of LDs (PubMed:31293035, PubMed:30970241). Mediates the formation of endoplasmic reticulum-lipid droplets (ER-LD) contacts by forming a complex with RAB18 and ZW10 (PubMed:30970241). Binds to phosphatidylinositol 3-phosphate (PtdIns3P) through FYVE-type zinc finger (PubMed:11739631, PubMed:11256955). {ECO:0000269|PubMed:11256955, ECO:0000269|PubMed:11739631, ECO:0000269|PubMed:30970241, ECO:0000269|PubMed:31293035}., FUNCTION: (Microbial infection) Upon SARS coronavirus-2/SARS-CoV-2 infection, mediates through binding with non-structural protein 6 (nsp6) the replication organelle-lipid droplet association required to sustain viral replication. {ECO:0000269|PubMed:35551511}.

Molecular Weight: 87.2 kDa

UniProt: [Q9HBF4](#)

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

Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months