

Datasheet for ABIN3092630
FGD1 Protein (AA 1-961) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	FGD1
Protein Characteristics:	AA 1-961
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGD1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MHGHRAPGGA GPSEPEHPAT NPPGAAPPAC ADSDPGASEP GLLARRGSGS ALGGPLDPQF VGPSDTSLGA APGHRVLPCG PSPQHHRALR FSYHLEGSQP RPGLHQGNRI LVKSLSLDPG QSLEPHPEGP QRLRSDPGPP TETPSQRPS LKRAPGPKPQ VPPKPSYLM PRMPPPLEPI PPPSRPLPA DPRVAKGLAP RAEASPSSAA VSSLIEKFER EPVIVASDRP VPGPSPGPPE PVMLPQPTSQ PPVPQLPEGE ASRCLFLLAP GPRDGEKVPN RDSGIDSISS PSNSEETCFV SDDGPPSHSL CPGPPALASV PVALADPHRP GSQEVSDLE EEDDEEEEEEE KDREIPVPLM ERQESVELTV QQKVFHIANE LLQTEKAYVS RLHLLDQVFC ARLLLEARNR SFPADVWHG IFSNICSIYC FHQQFLLPEL EKRMEEWDY PRIGDILQKL APFLKMYGEY VKNFDRAVEL VNTWTERSTQ FKVIIHEVQK EEACGNLTLQ HHMLEPVQRI PRYELLKDY LLKLPHGSPD SKDAQSLEL IATAAEHSNA AIRKMERMHK LLKVYELLGG EEDIVSPTKE LIKEGHILKL SAKNGTTQDR YLILFNDRLL YCVPRLLLG QKFSVRARID VGMELKESS NLNLPRTFLV

SGKQRSLELQ ARTEEEKKDW VQAINSTLLK HEQTLETFLK LNSTNREDED TPPNSPNVDL
GKRAPTPIRE KEVTMCMRCQ EPFNSITKRR HHCKACGHVV CGKCSEFRAR LVDNNSNR
VCTDCYVALH GVPGSSPACS QHTPQRRRSI LEKQASVAAE NSVICSFLHY MEKGGKQWHK
AWFWPENEP LVLYIYGAPQ DVKAQRSLPL IGFEVGPPEA GERPDRRHVF KITQSHLSWY
FSPETEELQR RWMAVLGRAG RGDTFPCGPT LSEDREMEEA PVAALGATAE PPESPQTRDK T

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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	FGD1
Alternative Name:	FGD1 (FGD1 Products)
Background:	FYVE, RhoGEF and PH domain-containing protein 1 (Faciogenital dysplasia 1 protein) (Rho/Rac guanine nucleotide exchange factor FGD1) (Rho/Rac GEF) (Zinc finger FYVE domain-containing protein 3),FUNCTION: Activates CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Plays a role in regulating the actin cytoskeleton and cell shape. {ECO:0000269 PubMed:8969170}.
Molecular Weight:	106.6 kDa
UniProt:	P98174
Pathways:	Neurotrophin Signaling Pathway

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>

Application Details

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