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Datasheet for ABIN3092533

FGD6 Protein (AA 1-1430) (Strep Tag)

Overview

Quantity:	1 mg
Target:	FGD6
Protein Characteristics:	AA 1-1430
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGD6 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTSAAEIKKP PVAPKPKFVV ANNKPAPPPI APKPDIVISS VPQSTKKMKP AIAPKPKVLK TSPVREIGQS PSRKIMLNLE GHKQELAEST DNFNCKYEGN QSN DYISPMC SCSSECIHKL GHRENLCVKQ LVLEPLEMNE NLENSKIDET LTIKTRSKCD LYGEKAKNQG GVV LKASVLE EELKDALIHQ MPPFISAQKH RPTDSP EMNG GCNSNGQFRI EFADLSPSPS SFEKVPDHHS CHLQLPSDEC EHFETCQDDS EKSNNCFQSS ELEALENGKR STLISSDGVS KKSEVKDLGP LEIHLVPYTP KFPTPKPRKT RTARLLRQKC VDT PSESTEE PGNSDSSSSC LTENSLKINK ISVLHQNVLC KQEQVDKMKL GNKSELNMES NSDAQDLVNS QKAMCNETTS FEKMAPSFDK DSNLSSDSTT VDGSSMSLAV DEGTGFIRCT VSMSLPKQLK LTCNEHLQSG RNLGVSAPQM QKESVIKEEN SLRIVPKKPQ RHSLPATGVL KKAASEELLE KSSYPSSEK SSEKSLERNH LQHLCAQNRG VSSSFDM PKR ASEKPVWKLP HPILPFGNP EFLKSVTVSS NSEPTALT K PRAKLSAMD VEKCTKPKD STKKN SFKKL LSMKLSICFM KSDFQKFW SK SSQ LGDTT TG HLSSGEQKGI ESDWQGLLVG EEKRSKPIKA YSTENYSLES QKKRKKSRGQ TSAANGLRAE
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SLDDQMLSRE SSSQAPYKSV TSLCAPEYEN IRHYEEIPEY ENLPFIMAIR KTQELEWQNS
SSMEDADANV YEVEEPEYAP DGQLQLGPRH QHSSSGASQE EQNDLGLGDL PSDEEEIINS
SDEDDVSSSES SKGEPDPLED KQDEDNGMKS KVHHIAKEIM SSEKVFVDVL KLLHIDFRDA
VAHASRQLGK PVIEDRILNQ ILYYLPQLYE LNRDLLKELE ERMLHWTEQQ RIADIFVKKG
PYLKMYSTYI KEFDKNIALI DEQCKKNPGF AAVVREFEMS PRCANLALKH YLLKPVQRIP
QYRLLLT DYL KNLIEDAGDY RDTQDALAVV IEVANHANDT MKQGDNFQKL MQIQYSLNGH
HEIVQPGRVF LKEGILMKLS RKVMQPRMFF LFNDALLYTT PVQSGMYKLN NMLSLAGMKV
RKPTQEAYQN ELKIESVERS FILSASSATE RDEWLEAISR AIEEYAKKRI TFCPSRSLDE
ADSENKEEVS PLGSKAPIWI PDTRATMCM I CTSEFTLTWR RHHCRACGKI VCQACSSNKY
GLDYLNQPA RVCEHCFQEL QKLDHQHSPR IGSPGNHKSP SSALSSVLHS IPSGRKQKKI
PAALKEVSAN TEDSSMSGYL YRSKGNKKPW KHFWFVIKNK VLYTYAASED VAALESQPLL
GFTVIQVKDE NSESKVFQLL HKNMLFYVFK AEDAHSQKW IEAFQEGTIL

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

Product Details

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®): 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:	FGD6
Alternative Name:	FGD6 (FGD6 Products)
Background:	FYVE, RhoGEF and PH domain-containing protein 6 (Zinc finger FYVE domain-containing protein 24),FUNCTION: May activate CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. May play a role in regulating the actin cytoskeleton and cell shape (By similarity). {ECO:0000250}.
Molecular Weight:	160.8 kDa
UniProt:	Q6ZV73

Application Details

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

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment:

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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)