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Datasheet for ABIN3136032

## FGD5 Protein (AA 1-1219) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	FGD5
Protein Characteristics:	AA 1-1219
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGD5 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: MGSPSEVSP DVQEQAATD NPEVFEEDSA DAAEGEDQIE QEEPPNCDEE AYNRDAAAAT  
MQVGEDLGEE GDHVQEDPAE ESCQIIPFES DSVEEDFSPT LTENPYEIFP TESTSFCNNT  
YSLDESANGH EPVCEICVEE VPGVGPPLNQ HDSLPDGSGE DSPVVPDWW VPENEGPVDD  
ALSSPYVMGV GLLSLGEGAQ SDTQAASGTL SGYSTWEEGD SEGGQVPVDR KNIATRAPH  
SGKVAGHVPE TVLEETGPET CSSGMGIRD T SDEVKIGIL PEGKPPECVR ALPAKPRAFT  
LYPRSFSVEG RESPLSMFRE PEGAGLD SHR VRRKEDNLSL PGAIGSSGSF SQRSHLPSSG  
TSTPSSVVDI PPPFDLACIT KKPITKSSPS LLIDGDTLEK ASKKKSSFK RFLELTFRKK  
TESKVHVD MN LSSSRSSSES SYHGPARVLE LDRRSLNSP QLCRTGKLR ASDSPAALIF  
YRDSKRKGVP FSRTVSRVES FEDRSRPPFL PLPLTKPRSI SFPNADTSDY ENIPAMNSDY  
ENIQIPRRP VRTGTFTKLF EEQSRALSTA NENDGYVDMS SFNAFESKQQ SSEQEAESAY  
TEPYKVCPI S AAPREDLTSD EEQGSSEED SASRDP SL SH KEGEQSRALV IAQELLSSEK  
AYVQMLQHLS LDFHGAVLRA LENVEQEGRE PLAQEELRQG LRELPAICDL HQGILESLEQ

RLGDCGEGQP QVADIFLARE QEFEHHAHI LQFDRYLGLL AESCLLSPRL ATTVREFEQS  
SQGGGQSMKH RMLRVVQRLF QYQVLLTDYL NNLCPDSA EY DNTQSALTLI SKVTDRANES  
MEQGENLQKL VHIEYSVRGQ GDLLQPGREF LKEGTLMRVR GKSRHPRHLF LMNDTLLYTH  
PQKDGKYRLK SSLPVANMKV SRPVMKVPY ALKIETPESC LTLSASSCAE RDEWHYCLSR  
ALPEDYKTQA LAAFHHSVEI RERLGLSLGE RLPTLVPVTH AMMCMNCGCD FSLTVRRHHC  
HACGKIVCRN CSRNKYPLKC LKNRMAKVCD GCFRELKLRN GPVPGSMRER PVSMSFPLSS  
SRFSSGSALS SVFQSISPST FKKQKKVPSA LSEVAASGEG SAISGYLSRC KSGKRRWKKL  
WLVIKGVLY TYLASEDKVA MESIPLLGFT IAPEKEEGSS EVGPVFHLYH KKTLFYSFKA  
EDNSAQRWM EAMEDASVL

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Fgd5 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate

## Product Details

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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.

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Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility: 0.22 µm filtered

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Endotoxin Level: Protein is endotoxin free.

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Grade: Crystallography grade

## Target Details

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Target: FGD5

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Alternative Name: Fgd5 ([FGD5 Products](#))

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Background: Activates CDC42, a member of the Ras-like family of Rho- and Rac proteins, by exchanging bound GDP for free GTP. Mediates VEGF-induced CDC42 activation. May regulate proangiogenic action of VEGF in vascular endothelial cells, including network formation, directional movement and proliferation. May play a role in regulating the actin cytoskeleton and cell shape (By similarity). {ECO:0000250}.

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Molecular Weight: 135.7 kDa Including tag.

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UniProt: [Q80UZ0](#)

## Application Details

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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.

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Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

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Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process