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Datasheet for ABIN3137311

Formin 2 Protein (FMN2) (AA 1-1578) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	Formin 2 (FMN2)
Protein Characteristics:	AA 1-1578
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Formin 2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MGNQDGKCLKR SAGDASHEGG GAEDAAGPRD AEITKKASGS KKALGKHGKG GGGSGETSKK
 KSKSDSRASV FSNLRIRKNL TKGKGACDSR EDVLDSQALP IGELDSAHSI VTKTPDLSLS
 AEETGLSDTE CADPFEVIHP GASRP AEGV GIQATAEDLE TAAGA QDGQR TSSGSDTDIY
 SFHSATEQED LLSDIQQAIR LQQQQQKLL LQDSEEP AAP PTAISPQPGA FLGLDQFLLG
 PRSEAEKDTV QALPVRPDL P ETTKSLVPEH PPSSGSHLTS ETPGYATAPS AVTDSLSSPA
 FTFPEAGPGE GAAGVPVAGT GDTDEECEED AFEDAPRGSP GEEWVPEVEE ASQRLEKEPE
 EGMRESITSA VVSLPGSPAP SPRCFKPYPL ITPCYIKTTT RQLSSPNHSP SQSPNQSPRI
 KKRDPDSVSR SSRTALASAA APAKKHRLEG GLTGGLSRSA DWTEELGVRT PGAGGSVHLL
 GRGATADDSG GGSPVLAACA PGAPATADGF QNVFTGR TLL EKLFSQQENG PPEEA EKFC
 RIIAMGLLLP FSDCFREPCN QNAGSSSAPF DQDQLYTWAA VSQPTHSM DY SEGQFPRREP
 SMWPSSKLPE EEPSPKDVDT EPKSSILESP KKCSNGVQQE VFDVKSEGQA TVIQQLEQTI
 EDLRTKIAEL EKQYPALDLE GPRGLSGLN GLTASADVSL DALVLHGKVA QPRTLEAKS

IQTSPTTEGR ILTLPPPAP PEGLLGSPAA ASGESALLTS PSGPQTKFCS EISLIVSPRR
ISVQLDAQQI QSASQLPPPP PLLGSDSQGQ PSQPSLHTES ETSHEHSVSS SFGNNCNVPP
APPLPCTESS SFMPGLGMAI PPPPCLSDIT VPALPSPTAP ALQFSNLQGP EMLPAPPQPP
PLPGLGVPPP PPAPPLPGMG IPPPPPLPGM GIPPPPLPG MGISPLPLP GMGIPPPPL
PGVGIPPPPP LPGVGIPPPP PLPGVGIPPP PPLPGVGIPP PPPLPGVGIP PPPPLPGVI
PPPPPLPGVG IPPPPPLPGV GIPPPPLPG SGIPPPALP GVAIPPPPL PGMGVPPPAP
PPPGAGIPPP PLLPGSGPPH SSQVGSSTLP AAPQGCGLF PPLPTGLFGL GMNQDRVARK
QLIEPCRPMK PLYWTRIQLH SKRDSSPSLI WEKIEEPSID CHEFEELFSK TAVKERKKPI
SDTISKTKAK QVVKLLSNKR SQAVGILMSS LHLDMKDIQH AVVNLDNSV DLETQLALYE
NRAQSDELEK IEKHSRSSKD KENAKSLDKP EQFLYELSLI PNFSEVFCI LFQSTFSESI
CSIRRKLELL QKLCETLKNG PGVMQVLGLV LAFGNMAG NKTRGQADGF GLDILPKLKD
VKSSDNSRSL LSYIVSYLR NFDDEDAGKEQ CVFPLAEPQE LFQASQMKFE DFQKDLRKLK
KDLKACEAEA GKVYQVSSAE HMQPFFENME QFISQAKIDQ ESQEAALTET HKCFLETTAY
YFMKPKLGEK EVSPNVFFSV WHEFSSDFKD AWKKENKLIL QERVKEAEEV CRQKKGKSLY
KVKPRHDSGI KAKISMKT

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

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Fmn2 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

Product Details

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.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">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 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	Formin 2 (FMN2)
Alternative Name:	Fmn2 (FMN2 Products)
Background:	Plays a role in responses to DNA damage, cellular stress and hypoxia by protecting CDKN1A against degradation, and thereby plays a role in stress-induced cell cycle arrest. Protects cells against apoptosis by protecting CDKN1A against degradation (By similarity). Actin-binding protein that is involved in actin cytoskeleton assembly and reorganization. Acts as an actin nucleation factor and promotes assembly of actin filaments together with SPIRE1 and SPIRE2. Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport. Required for asymmetric spindle positioning, asymmetric oocyte division and polar body extrusion during female germ cell meiosis. {ECO:0000250, ECO:0000269 PubMed:12447394, ECO:0000269 PubMed:18848445, ECO:0000269 PubMed:19062278, ECO:0000269 PubMed:21620703, ECO:0000269 PubMed:21983562}.
Molecular Weight:	168.3 kDa Including tag.
UniProt:	Q9JL04
Pathways:	Regulation of Actin Filament Polymerization

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: 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.

Restrictions: For Research Use only

Handling

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



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