

Datasheet for ABIN3136061

EIF4G3 Protein (AA 1-1579) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	EIF4G3
Protein Characteristics:	AA 1-1579
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF4G3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MNSQPQARSP FFQRPQIQPP RAAIPNSSPS IRPGVQTPTA VYQANQHIMM VNHLPMPYPV TQGHQYCIPQ YRHSGPPYVG PPQQYPVQPP GPGPFYPPGPG PGDFANAYGT PFYPSQPVYQ SAPIIVPTQQ QPPPAKREKK TIRIRDPNQG GKDITEEIMS GGGSRNPTTP IGRPASTPTP PQQLPSQVPE HSPVVYGTVE SAHLAASPVT TAASDQKQEE KPKPDPVFQS PSTVLRRLVLS GEKKEQAGQM PETAAGEPTP EPRTSSPTS LPPLARSSLP SPMSAALSSQ PLFTAEDKCE LPSSKEEDAP PVPSPTSCTA ASGPSLTDNS DICKKPCSV PHDSQLISST ILINEMNGVG EKLSAKENTV GMLRQEVLP TLELEILEHP QEELKVECTP TPIAPSMPLA FSPAPPTPPT SPPCPPVLS AAIARSPAVA TEVQRVADEG ESLRTCLSKD AKEMQDKAES ESDGQAEETA DPQSLHSGRS PAPVQTATTA PKSWKKTKEQ TRTPDEVLEA EAEPKAEEL AVDSVLEPEQ EKMSQGFSE RDPSALKRGK AEEGN GEEAE PVRNGAESAS EGE GGDGNSG SADSSADGLT FPFKAESWKP ADTEGKKQYD REFLLDIQFM PACIQKPEGL PPISDVVLDPK INQPRLSMRT LDPRI LPRGP DFTPAFADFP RQTPGGRGVP LLNVGPRRSQ PGQRREPRKI ITVSVKEDVH
-----------	--

LRKAENAWKP SQKRDSHADD PESIKTQELF RKVRSILNKL TPQMFNQLMK QVSALTVDTE
ERLKGVIDLV FEKAIDEPSF SVAYANMCRC LVTCLKVPMAD KPGNTVNFRLK LLLNRCQKEF
EKDKADDDVF EKKQKELEAA SAPEERTRLH DELEEAKDKA RRRSIGNIKF IGELFKLKML
TEAMHDCVV KLLKNHDEES LECLCRLLTT IGDLDFEKA KPRMDQYFNQ MEKIVKERKT
SSRIRFMLQD VIDLRLCNWV SRRADQGPKT IEQIHKEAKI EEQEEQRKVQ QLMTKEKRRP
GVQRVDEGGW NTVQGAKNSR VLDPSKFLKI TKPTIDEKIQ LVPKAQLGSW GKGSSGGAKA
SESDALRSSA SSLNRFSPQLQ PPAPSGSPSA TPLEFDSRRA LTRSGSMGRE KSDKPIAGT
ARPNTFLRGS SKDLLDNQSQ EEQRREMLET VKQLTGGLDA ERASTEADRS KTRELAKSEM
CAVPAPDKPA LSEEEVERKS KSIIDEFLHI NDFKEATQCI EELSAQGPHL VFVKVGVEFT
LERSQITRDH MGHLLYQLVQ SEKLSKQDFF KGFSETLELA DDMAIDIPHI WLYLAELVTP
MLKEGGISMR ELIVEFSKPL LPVGRAGVLL SEILHLLCRQ MSHKKVGALW READLSWKDF
LPEGEDVHHF LLEQKLDLTE SEGPCSSEAL SKKELSAEEL SQRLEKLIME EKADDERIFD
WVEANLDESQ MSSPTFLRAL MTAVCKAAII ADCSTFRVDT AVIKQRPIL LKYLDSDTEK
ELQALYALQA SIVKLDQPAN LLRMFFDCLY DEEVEDAF YKWESSKDPA EQAGKGVALK
SVTAFFTWLR EAEEESEDN

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 Eif4g3 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:

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: EIF4G3

Alternative Name: Eif4g3 ([EIF4G3 Products](#))

Background: Probable component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome. Thought to be a functional homolog of EIF4G1 (By similarity). {ECO:0000250}.

Molecular Weight: 175.8 kDa Including tag.

UniProt: [Q80XI3](#)

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

Application Details

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