



Datasheet for ABIN3093657

MAGI3 Protein (AA 1-1506) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	MAGI3
Protein Characteristics:	AA 1-1506
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAGI3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MSKTLKKKKH WLSKVQEC AV SWAGPPGDFG AEIRGGAERG EFPYLGRLRE EPGGGTCCVW
 SGKAPSPGDV LLEVNGTPVS GLTNRDTLAV IRHFREPIRL KTVKPGKVIN KDLRHYSLSLQ
 FQKGSIDHKL QQVIRDNLVY RTIPCTTRAP RDGEVPGVDY NFISVEQFKA LEESGALLES
 GTYDGNFYGT PKPPAEPSPF QPDPVDQVLF DNEFDAESQR KRTTSVSKME RMDSSLPEEE
 EDEDKEAING SGNAENRERH SESSDWMKTV PSYNQTNSSM DFRNYMMRDE TLEPLPKNWE
 MAYTDTGMIY FIDHNTKTTT WLDPRLCCKA KAPEDCEDGE LPYGWEKIED PQYGTYYVDF
 TLVAQAGVQW HDLGLSLQPPP PGFNHLNQKT QFENPVVEAK RKKQLGQVEI GSSKPDMEKS
 HFTRDPSQLK GVLVRASLKK STMGFGFTII GGDRPDEFLQ VKNVLKDGPA AQDGKIAPGD
 VIVIDINGNCV LGHTHADVQ MFQLVPVNQY VNLTLCRGYP LPDDSEDVW DIVAATPVIN
 GQSLTKGETC MNPQDFKPGA MVLEQNGKSG HLTGDGLNG PSDASEQRVS MASSGSSQPE
 LVTIPLIKGP KGFGFAIADS PTGQKVKMIL DSQWCQGLQK GDIIEIYHQ NVQNLTHLQV
 VEVLKQFPVG ADVPLLILRG GPPSPTKTAK MKTDKKENAG SLEAINEPIP QPMPFPSSII

RSGSPKLDPS EVYLKSKTLY EDKPPNTKDL DVFLRKQESG FGFRVLGGDG PDQSIYIGAI
IPLGAAEKDG RLRAADELMC IDGIPVKGKS HKQVLDLMTT AARNGHVLLT VRRKIFYGEK
QPEDDSSQAF ISTQNGSPRL NRAEVPARPA PQEPYDVVLQ RKENEGFGFV ILTSKNKPPP
GVIPHKIGRV IEGSPADRCG KLVKGDHISA VNGQSIVELS HDNIVQLIKD AGVTVTLTVI
AEEHHGPPS GTNSARQSPA LQHRPMGQSQ ANHIPGDRSA LEGEIGKDVS TSYRHSWSDH
KHLAQPD TAV ISVVGSRHNQ NLGCYPVELE RGPRGFGFSL RGGKEYNMGL FILRLAEDGP
AIKDGRIVHG DQIVEINGEP TQGITHTRAI ELIQAGGNKV LLLL RPTGL IPDHGDWDIN
NPSSSNVIYD EQSPLPPSSH FASIFEESHV PVIEESLRVQ ICEKAEELKD IVPEKKSTLN
ENQPEIKHQS LLQKNVSKRD PPSSHGHSNK KNLLKVENG V TRRGRSVSPK KPASQHSEEH
LDKIP SPLKN NPKRRPRDQS LSPSKGENKS CQVSTRAGSG QDQCRKSRGR SASPKKQQKI
EGSKAP SNAE AKLLEGKSRR IAGYTGSNAE QIPDGKEKSD VIRKDAKQNN LEKSRTSPE
KKIKRMVEKS LPSKMTNKTT SKEVSENEKG KKVTTGETSS SNDKIGENVQ LSEKRLKQEP
EEKVVS NKTE DHKGKELEAA DKNKETGRFK PESSSPVKKT LITPGPWKVP SGNKVTGTIG
MAEKRQ

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.
- Human MAGI3 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.

Product Details

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: MAGI3

Alternative Name: MAGI3 ([MAGI3 Products](#))

Background: Acts as a scaffolding protein at cell-cell junctions, thereby regulating various cellular and signaling processes. Cooperates with PTEN to modulate the kinase activity of AKT1. Its interaction with PTPRB and tyrosine phosphorylated proteins suggests that it may link receptor tyrosine phosphatase with its substrates at the plasma membrane. In polarized epithelial cells, involved in efficient trafficking of TGFA to the cell surface. Regulates the ability of LPAR2 to activate ERK and RhoA pathways. Regulates the JNK signaling cascade via its interaction with FZD4 and VANGL2. {ECO:0000269|PubMed:10748157}.

Molecular Weight: 166.6 kDa Including tag.

UniProt: [Q5TCQ9](#)

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: In cases in which it is highly likely that the recombinant protein with the default tag will be

Application Details

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

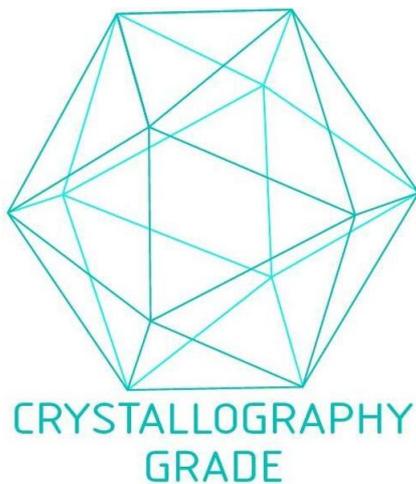


Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process