Datasheet for ABIN3137189

MAGI3 Protein (AA 1-1476) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MAGI3
Protein Characteristics:	AA 1-1476
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAGI3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSKTLKKKKH WLSKVQECAV SWAGPPGDLG AEIRGGAERG EFPYLGRLRD EAGGGGGTCC VVSGKAPSPG DVLLEVNGTP VSGLTNRDTL AVIRHFREPI RLKTVKPGKV INKDLRHYLS LQFQKGSIDH KLQQVIRDNL YLRTIPCTTR APRDGEVPGV DYNFISVEQF KALEESGALL ESGTYDGNFY GTPKPPAEPS PFQPDPVDQV LFDNEFDTES QRKRTTSVSK MERMDSSLPE EEEDEDKEAV NGSGSMETRE MHSETSDCWM KTVPSYNQTN SSMDFRNYMM RDENLEPLPK NWEMAYTDTG MIYFIDHNTK TTTWLDPRLC KKAKAPEDCE DGELPYGWEK IEDPQYGTYY VDHLNQKTQF ENPVEEAKRK KQLGQAEIHS AKTDVERAHF TRDPSQLKGV LVRASLKKST MGFGFTIIGG DRPDEFLQVK NVLKDGPAAQ DGKIAPGDVI VDINGNCVLG HTHADVVQMF QLVPVNQYVN LTLCRGYPLP DDSEDPVVDI VAATPVINGQ SLTKGETCMN TQDFKLGAMV LDQNGKSGQI LASDRLNGPS ESSEQRASLA SSGSSQPELV TIPLIKGPKG FGFAIADSPT GQKVKMILDS QWCQGLQKGD IIKEIYHQNV QNLTHLQVVE VLKQFPVGAD VPLLILRGGP

CSPTKTAKTK TDTKENSGSL ETINEPIPQP MPFPPSIIRS GSPKLDPSEV YLKSKTLYED KPPNTKDLDV FLRKQESGFG FRVLGGDGPD QSIYIGAIIP LGAAEKDGRL RAADELMCID GIPVKGKSHK QVLDLMTTAA RNGHVLLTVR RKIFYGEKQP EDESHQAFSQ NGSPRLNRAE LPTRSAPQEA YDVTLQRKEN EGFGFVILTS KSKPPPGVIP HKIGRVIDGS PADRCGGLKV GDHISAVNGQ SIVDLSHDNI VQLIKDAGVT VTLTVVAEEE HHGPPSGTNS ARQSPALQHR PMGQAQANHI PGDRIALEGE IGRDVCSSYR HSWSDHKHLA QPDTAVISVV GSRHNQSLGC YPVELERGPR GFGFSLRGGK EYNMGLFILR LAEDGPAIKD GRIHVGDQIV EINGEPTQGI THTRAIELIQ AGGNKVLLLL RPGTGLIPDH GDWDTNSPSS SNVIYDEQPP PLPSSHSAST FEESHVPATE DSLTRVQICE KAEELKDTVQ EKKSTLNGSQ PEMKYQSVHK TMSKKDPPRG SGHGEKSRLK GENGVTRRGR SASPKKSVNR HSEEHLEKIP RPLKSDPKEK SRDRSLSPRK GESKGRLTIK AGSGQDPYRK DRGRSSSPKK QQKIGGNSLS NTEGKLSEAG SRRAAGHPRD STEQLPDGRE KSGVSRKDLK QSQPGKTRTK SPEKKSSKVD ETSLPSKKTS STAGRVVSEK EKGKKPTAGE TSRETVEHTQ ISAKQLKQEA QEKTALGNAD DHKGRESEVT DRCRERAGCT PQSSSLVKKA PITPGPWRVP RANKVTGTTG MADKQL

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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

Product Details

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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	MAGI3
Alternative Name:	Magi3 (MAGI3 Products)
Background:	Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 3 (Membrane-associated guanylate kinase inverted 3) (MAGI-3),FUNCTION: 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:15195140, ECO:0000269|PubMed:15652357}.
Molecular Weight:	161.7 kDa
UniProt:	Q9EQJ9

Application Details

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

Application Details

	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	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 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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months