Datasheet for ABIN3093746

MEFV Protein (AA 1-781) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	MEFV
Protein Characteristics:	AA 1-781
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MEFV protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MAKTPSDHLL STLEELVPYD FEKFKFKLQN TSVQKEHSRI PRSQIQRARP VKMATLLVTY YGEEYAVQLT LQVLRAINQR LLAEELHRAA IQEYSTQENG TDDSAASSSL GENKPRSLKT PDHPEGNEGN GPRPYGGGAA SLRCSQPEAG RGLSRKPLSK RREKASEGLD AQGKPRTRSP ALPGGRSPGP CRALEGGQAE VRLRRNASSA GRLQGLAGGA PGQKECRPFE VYLPSGKMRP RSLEVTISTG EKAPANPEIL LTLEEKTAAN LDSATEPRAR PTPDGGASAD LKEGPGNPEH SVTGRPPDTA ASPRCHAQEG DPVDGTCVRD SCSFPEAVSG HPQASGSRSP GCPRCQDSHE RKSPGSLSPQ PLPQCKRHLK QVQLLFCEDH DEPICLICSL SQEHQGHRVR PIEEVALEHK KKIQKQLEHL KKLRKSGEEQ RSYGEEKAVS FLKQTEALKQ RVQRKLEQVY YFLEQQEHFF VASLEDVGQM VGQIRKAYDT RVSQDIALLD ALIGELEAKE CQSEWELLQD IGDILHRAKT VPVPEKWTTP QEIKQKIQLL HQKSEFVEKS TKYFSETLRS EMEMFNVPEL IGAQAHAVNV ILDAETAYPN LIFSDDLKSV RLGNKWERLP DGPQRFDSCI IVLGSPSFLS GRRYWEVEVG DKTAWILGAC KTSISRKGNM TLSPENGYWV VIMMKENEYQ ASSVPPTRLL IKEPPKRVGI

Product Details

	FVDYRVGSIS FYNVTARSHI YTFASCSFSG PLQPIFSPGT RDGGKNTAPL TICPVGGQGP D **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 MEFV 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 receival 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.
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.

Product Details

Grade:	Crystallography grade

Target Details

Target:	MEFV
Alternative Name:	MEFV (MEFV Products)
Background:	Involved in the regulation of innate immunity and the inflammatory response in response to IFNG/IFN-gamma. Organizes autophagic machinery by serving as a platform for the assembly of ULK1, Beclin 1/BECN1, ATG16L1, and ATG8 family members and recognizes specific autophagy targets, thus coordinating target recognition with assembly of the autophagic apparatus and initiation of autophagy. Acts as an autophagy receptor for the degradation of several inflammasome components, including CASP1, NLRP1 and NLRP3, hence preventing excessive IL1B- and IL18-mediated inflammation (PubMed:16785446, PubMed:17431422, PubMed:26347139). However, it may also have a positive effect in the inflammatory pathway. In different experimental systems, it has been shown to activate IL1B production (PubMed:16037825). It has also been shown to be required for PSTPIP1-induced PYCARD oligomerization and for formation of inflammasomes. Recruits PSTPIP1 to inflammasomes, and is required for PSTPIP1 oligomerization (PubMed:10807793, PubMed:11468188, PubMed:17964261, PubMed:18577712, PubMed:19109554, PubMed:19584923). {ECO:0000269|PubMed:10807793, ECO:0000269|PubMed:11468188, ECO:0000269|PubMed:16037825, ECO:0000269|PubMed:16785446, ECO:0000269|PubMed:17431422, ECO:0000269|PubMed:17964261, ECO:0000269|PubMed:18577712, ECO:0000269|PubMed:19109554, ECO:0000269|PubMed:19584923, ECO:0000269|PubMed:26347139}.
Molecular Weight:	87.4 kDa Including tag.
UniProt:	O15553
Pathways:	Positive Regulation of Endopeptidase Activity

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 gurantee though.
Comment:	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

Application Details

	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