Datasheet for ABIN3093690

MAP3K9 Protein (AA 1-1104) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	MAP3K9
Protein Characteristics:	AA 1-1104
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K9 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MEPSRALLGC LASAAAAAPP GEDGAGAGAE EEEEEEEEAA AAVGPGELGC DAPLPYWTAV FEYEAAGEDE LTLRLGDVVE VLSKDSQVSG DEGWWTGQLN QRVGIFPSNY VTPRSAFSSR CQPGGEDPSC YPPIQLLEID FAELTLEEII GIGGFGKVYR AFWIGDEVAV KAARHDPDED ISQTIENVRQ EAKLFAMLKH PNIIALRGVC LKEPNLCLVM EFARGGPLNR VLSGKRIPPD ILVNWAVQIA RGMNYLHDEA IVPIIHRDLK SSNILILQKV ENGDLSNKIL KITDFGLARE WHRTTKMSAA GTYAWMAPEV IRASMFSKGS DVWSYGVLLW ELLTGEVPFR GIDGLAVAYG VAMNKLALPI PSTCPEPFAK LMEDCWNPDP HSRPSFTNIL DQLTTIEESG FFEMPKDSFH CLQDNWKHEI QEMFDQLRAK EKELRTWEEE LTRAALQQKN QEELLRRREQ ELAEREIDIL ERELNIIIHQ LCQEKPRVKK RKGKFRKSRL KLKDGNRISL PSDFQHKFTV QASPTMDKRK SLINSRSSPP ASPTIIPRLR AIQLTPGESS KTWGRSSVVP KEEGEEEEKR APKKKGRTWG PGTLGQKELA SGDEGSPQRR EKANGLSTPS ESPHFHLGLK SLVDGYKQWS SSAPNLVKGP RSSPALPGFT SLMEMEDEDS EGPGSGESRL QHSPSQSYLC IPFPRGEDGD GPSSDGIHEE

	PTPVNSATST PQLTPTNSLK RGGAHHRRCE VALLGCGAVL AATGLGFDLL EAGKCQLLPL EEPEPPAREE KKRREGLFQR SSRPRRSTSP PSRKLFKKEE PMLLLGDPSA SLTLLSLSSI SECNSTRSLL RSDSDEIVVY EMPVSPVEAP PLSPCTHNPL VNVRVERFKR DPNQSLTPTH VTLTTPSQPS SHRRTPSDGA LKPETLLASR SPSSNGLSPS PGAGMLKTPS PSRDPGEFPR LPDPNVVFPP TPRRWNTQQD STLERPKTLE FLPRPRPSAN RQRLDPWWFV SPSHARSTSP ANSSSTETPS NLDSCFASSS STVEERPGLP ALLPFQAGPL PPTERTLLDL DAEGQSQDST VPLCRAELNT HRPAPYEIQQ EFWS **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 MAP3K9 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

Product Details

	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:	MAP3K9
Alternative Name:	MAP3K9 (MAP3K9 Products)
Background:	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade through the phosphorylation of MAP2K4/MKK4 and MAP2K7/MKK7 which in turn activate the JNKs. The MKK/JNK signaling pathway regulates stress response via activator protein-1 (JUN) and GATA4 transcription factors. Plays also a role in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis. {ECO:0000269|PubMed:11416147, ECO:0000269|PubMed:15610029}.
Molecular Weight:	122.8 kDa Including tag.
UniProt:	P80192

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 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

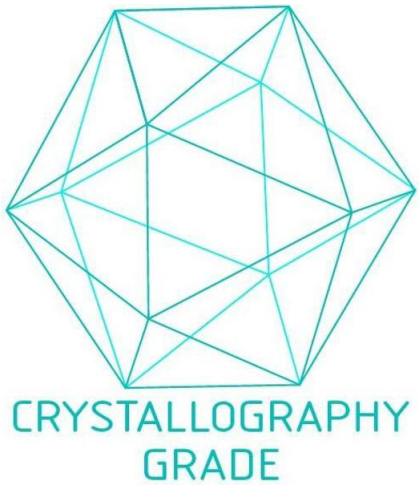

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process