Datasheet for ABIN3131271

MAP3K4 Protein (AA 1-1597) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	MAP3K4
Protein Characteristics:	AA 1-1597
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K4 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MRDAIAEPVP PPALADTPAA AMEELRPAPP PQPEPDPECC PAARQECMLG ESARKSMESD PEDFSDETNT ETLYGTSPPS TPRQMKRLSA KHQRNSAGRP ASRSNLKEKM NTPSQSPHKD LGKGVETVEE YSYKQEKKIR ATLRTTERDH KKNAQCSFML DSVAGSLPKK SIPDVDLNKP YLSLGCSNAK LPVSMPMPIA RTARQTSRTD CPADRLKFFE TLRLLLKLTS VSKKKDREQR GQENTAAFWF NRSNELIWLE LQAWHAGRTI NDQDLFLYTA RQAIPDIINE ILTFKVNYGS IAFSSNGAGF NGPLVEGQCR TPQETNRVGC SSYHEHLQRQ RVSFEQVKRI MELLEYMEAL YPSLQALQKD YERYAAKDFE DRVQALCLWL NITKDLNQKL RIMGTVLGIK NLSDIGWPVF EIPSPRPSKG YEPEDEVEDT EVELRELESG TEESDEEPTP SPRVPELRLS TDAILDSRSQ GCVSRKLERL ESEEDSIGWG TADCGPEASR HCLTSIYRPF VDKALKQMGL RKLILRLHKL MNGSLQRARV ALVKDDRPVE FSDFPGPMWG SDYVQLSGTP PSSEQKCSAV SWEELRAMDL PSFEPAFLVL CRVLLNVIHE CLKLRLEQRP AGEPSLLSIK QLVRECKEVL KGGLLMKQYY QFMLQEVLGG LEKTDCNMDA FEEDLQKMLM VYFDYMRSWI QMLQQLPQAS HSLKNLLEEE

WNFTKEITHY IRGGEAQAGK LFCDIAGMLL KSTGSFLESG LQESCAELWT SADDNGAADE LRRSVIEISR ALKELFHEAR ERASKALGFA KMLRKDLEIA AEFVLSASAR ELLDALKAKQ YVKVQIPGLE NLHVFVPDSL AEEKKIILQL LNAATGKDCS KDPDDVFMDA FLLLTKHGDR ARDSEDGWGT WEARAVKIVP QVETVDTLRS MQVDNLLLVV MESAHLVLQR KAFQQSIEGL MTVRHEQTSS QPIIAKGLQQ LKNDALELCN RISDAIDRVD HMFTLEFDAE VEESESATLQ QYYREAMIQG YNFGFEYHKE VVRLMSGEFR QKIGDKYISF AQKWMNYVLT KCESGRGTRP RWATQGFDFL QAIEPAFISA LPEDDFLSLQ ALMNECIGHV IGKPHSPVTA IHRNSPRPVK VPRCHSDPPN PHLIIPTPEG FSTRSVPSDA RTHGNSVAAA AAVAAAATTA AGRPGPGGGD SVPAKPVNTA PDTRGSSVPE NDRLASIAAE LQFRSLSRHS SPTEERDEPA YPRSDSSGST RRSWELRTLI SQTKDSASKQ GPIEAIQKSV RLFEERRYRE MRRKNIIGQV CDTPKSYDNV MHVGLRKVTF KWQRGNKIGE GQYGKVYTCI SVDTGELMAM KEIRFQPNDH KTIKETADEL KIFEGIKHPN LVRYFGVELH REEMYIFMEY CDEGTLEEVS RLGLQEHVIR LYTKQITVAI NVLHEHGIVH RDIKGANIFL TSSGLIKLGD FGCSVKLKNN AQTMPGEVNS TLGTAAYMAP EVITRAKGEG HGRAADIWSL GCVVIEMVTG KRPWHEYEHN FQIMYKVGMG HKPPIPERLS PEGKAFLSHC LESDPKIRWT ASQLLDHAFV KVCTDEE

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 Map3k4 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

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:	MAP3K4
Alternative Name:	Map3k4 (MAP3K4 Products)
Background:	Component of a protein kinase signal transduction cascade. Activates the CSBP2, P38 and JNK MAPK pathways, but not the ERK pathway. Specifically phosphorylates and activates MAP2K4 and MAP2K6. {ECO:0000269|PubMed:16157600, ECO:0000269|PubMed:9079650}.
Molecular Weight:	180.8 kDa Including tag.
UniProt:	O08648
Pathways:	MAPK Signaling

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:	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