Datasheet for ABIN3093707

MAP3K1 Protein (AA 2-1512) (His tag)

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Overview

Quantity:	1 mg
Target:	MAP3K1
Protein Characteristics:	AA 2-1512
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	AAAAGNRASS SGFPGARATS PEAGGGGGAL KASSAPAAAA GLLREAGSGG RERADWRRRQ LRKVRSVELD QLPEQPLFLA ASPPASSTSP SPEPADAAGS GTGFQPVAVP PPHGAASRGG AHLTESVAAP DSGASSPAAA EPGEKRAPAA EPSPAAAPAG REMENKETLK GLHKMDDRPE ERMIREKLKA TCMPAWKHEW LERRNRRGPV VVKPIPVKGD GSEMNHLAAE SPGEVQASAA SPASKGRRSP SPGNSPSGRT VKSESPGVRR KRVSPVPFQS GRITPPRRAP SPDGFSPYSP EETNRRVNKV MRARLYLLQQ IGPNSFLIGG DSPDNKYRVF IGPQNCSCAR GTFCIHLLFV MLRVFQLEPS DPMLWRKTLK NFEVESLFQK YHSRRSSRIK APSRNTIQKF VSRMSNSHTL SSSSTSTSSS ENSIKDEEEQ MCPICLLGML DEESLTVCED GCRNKLHHHC MSIWAEECRR NREPLICPLC RSKWRSHDFY SHELSSPVDS PSSLRAAQQQ TVQQQPLAGS RRNQESNFNL THYGTQQIPP AYKDLAEPWI QVFGMELVGC LFSRNWNVRE MALRRLSHDV SGALLLANGE STGNSGGSSG SSPSGGATSG SSQTSISGDV VEACCSVLSM VCADPVYKVY VAALKTLRAM LVYTPCHSLA ERIKLQRLLQ PVVDTILVKC ADANSRTSQL SISTLLELCK GQAGELAVGR

EILKAGSIGI GGVDYVLNCI LGNQTESNNW QELLGRLCLI DRLLLEFPAE FYPHIVSTDV SQAEPVEIRY KKLLSLLTFA LQSIDNSHSM VGKLSRRIYL SSARMVTTVP HVFSKLLEML SVSSSTHFTR MRRRLMAIAD EVEIAEAIQL GVEDTLDGQQ DSFLQASVPN NYLETTENSS PECTVHLEKT GKGLCATKLS ASSEDISERL ASISVGPSSS TTTTTTTTEQ PKPMVQTKGR PHSQCLNSSP LSHHSQLMFP ALSTPSSSTP SVPAGTATDV SKHRLQGFIP CRIPSASPQT QRKFSLQFHR NCPENKDSDK LSPVFTQSRP LPSSNIHRPK PSRPTPGNTS KQGDPSKNSM TLDLNSSSKC DDSFGCSSNS SNAVIPSDET VFTPVEEKCR LDVNTELNSS IEDLLEASMP SSDTTVTFKS EVAVLSPEKA ENDDTYKDDV NHNQKCKEKM EAEEEEALAI AMAMSASQDA LPIVPQLQVE NGEDIIIIQQ DTPETLPGHT KAKQPYREDT EWLKGQQIGL GAFSSCYQAQ DVGTGTLMAV KQVTYVRNTS SEQEEVVEAL REEIRMMSHL NHPNIIRMLG ATCEKSNYNL FIEWMAGGSV AHLLSKYGAF KESVVINYTE QLLRGLSYLH ENQIIHRDVK GANLLIDSTG QRLRIADFGA AARLASKGTG AGEFQGQLLG TIAFMAPEVL RGQQYGRSCD VWSVGCAIIE MACAKPPWNA EKHSNHLALI FKIASATTAP SIPSHLSPGL RDVALRCLEL QPQDRPPSRE LLKHPVFRTT W

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 MAP3K1 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.

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:	MAP3K1
Alternative Name:	MAP3K1 (MAP3K1 Products)
Background:	Component of a protein kinase signal transduction cascade. Activates the ERK and JNK kinase pathways by phosphorylation of MAP2K1 and MAP2K4. Activates CHUK and IKBKB, the central protein kinases of the NF-kappa-B pathway. {ECO:0000269|PubMed:9808624}.
Molecular Weight:	165.3 kDa Including tag.
UniProt:	Q13233
Pathways:	MAPK Signaling, Interferon-gamma Pathway, Caspase Cascade in Apoptosis, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, Regulation of Actin Filament Polymerization, Toll-Like Receptors Cascades

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)

