

Datasheet for ABIN3134459

MAP3K1 Protein (AA 2-1493) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	MAP3K1
Protein Characteristics:	AA 2-1493
Origin:	Mouse
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:	AAAAGDRASS SGFPGAAAAS PEAGGGGGGG GALQGSGAPA AGAAGLLREP GSAGRERADW RRRQLRKVRS VELDQLPEQP LFLAAASPPC PSTSPSPEPA DAAAGASRFQ PAAGPPPPGA ASRCGSHSAE LAAARDSGAR SPAGAEPPSA AAPSGREMEN KETLKGLHKM EDRPEERMIR EKLKATCMPA WKHEWLERRN RRGPVVVKPI PIKGDGSEVN NLAAEPQEGEG QAGSAAPAPK GRRSPSPGSS PSGRSVKPES PGVRRKRVS PPFQSGRITP PRRAPSPDGF SPYSPEETSR RVNKMVRARL YLLQQIGPNS FLIGGDSPDN KYRVFIGPQN CSCGRGAFCI HLLFVMLRVF QLEPSDPMWL RKTLLKNFEVE SLFQKYHSRR SSRIKAPSRN TIQKFVSRMS NSHTLSSSST STSSSENSIK DEEEQMCPIK LLGMLDEESL TVCEDGCRNK LHHHCMSIWA EECRRNREPL ICPLCRSKWR SHDFYSHEL SVPESPASLR AVQQPSSPQQ PVAGSQRRNQ ESSFNLTHFG TQQIPSAYKD LAEPWIVQFG MELVGCLFSR NWNVREMA LRSLHDVSGAL LLANGESTGN SGGGSGGSLS AGAASGSSQP SISGDVVEAC CSVLSIVCAD PVYKVYVAAL KTLRAMLVYT PCHSLAERIK LQRLLRPVVD TILVKCADAN SRTSQLSIST VLELCKGQAG ELAVGREILK
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AGSIGVGGVD YVLSCILGNQ AESNNWQELL GRLCLIDRLL LEFPAEFYPH IVSTDVSQAE
PVEIRYKKLL SLLTFALQSI DNSHSMVGKL SRRIYLSSAR MVTAVPAVFS KLVTMLNASG
STHFTRMRRR LMAIADEVEI AEVIQLGVED TVDGHQDSLQ AVAPTSCLN SSLEHTVHRE
KTGKGLSATR LSASSEDISD RLAGVSVGLP SSTTTEQPKP AVQTKGRPHS QCLNSSPLSH
AQLMFPAPSA PCSSAPSVPD ISKHRPQAFV PCKIPSASPQ TQRKFSLQFQ RNCSEHRDSD
QLSPVFTQSR PPPSSNIHRP KPSRPVPGST SKLGDAKSS MTLDLGSASR CDDSFSGGGN
SGNAVIPSDE TVFTPVEDKC RLDVNTLNS SIEDLLEASM PSSDTTVTFK SEVAVLSPEK
AENDDTYKDD VNHNQKCKEK MEAEIEEEALA IAMAMSASQD ALPIVPQLQV ENGEDIIIIQ
QDTPETLPGH TKAKQPYRED AEWLKGQQIG LGAFSSCYQA QDVGTGTLMA VKQVTYVRNT
SSEQEEVVEA LREEIRMMGH LNHPNIIRML GATCEKSNYN LFIEWMAGGS VAHLLSKYGA
FKESVINYT EQLLRGLSYL HENQIIHRDV KGANLLIDST GQRLRIADFG AAARLASKGT
GAGEFQGQLL GTIAFMAPEV LRQQYGRSC DVWSVGCAI EMACAKPPWN AEKHSNHLAL
IFKIASATTA PSIPSHLSPG LRDVAVRCL LQPQDRPPSR ELLKHPVFRT TW

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 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 receipt 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

Product Details

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:14500727}.
Molecular Weight:	162.1 kDa Including tag.
UniProt:	P53349
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 guarantee 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