

Datasheet for ABIN3093690

MAP3K9 Protein (AA 1-1104) (Strep Tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	MAP3K9
Protein Characteristics:	AA 1-1104
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K9 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEPSRALLGC LASAAAAAPP GEDGAGAGAE EEEEEEEAA AAVGPGLGC 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 IRASMFSGKS DVWSYGVLLW ELLTGEVPFR GIDGLAVAYG VAMNKLALPI PSTCPEPFAK LMEDCWNPDP HSRPSFTNIL DQLTTIEESG FFEMPKDSFH CLQDNWKHEI QEMFDQLRAK EKELRTWEEE LTRAALQQKN QEELLRRREQ ELAEREIDIL ERELNIIHQ LCQEKPRVKK RKGKFRKSRL KLKDGNRISL PSDFQHKFTV QASPTMDKRK SLINSRSSPP ASPTIIPRLR AIQLTPGESS KTWGRSSVVP KEEGEEEEKR APKKKGRTWG PGTLGQKELA SGDEGSPQRR EKANGLSTPS ESPHFHLGLK SLVDGYKQWS SSAPNLVKGP RSSPALPGFT SLMEMEDED EGP GSGESRL QHSPSQSYLC IPFPRGEDGD GPSSDGIHEE
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PTPVNSATST PQLTPTNSLK RGGAAHRRCE VALLGCGAVL AATGLGFDLL EAGKCQLLPL
EEPEPPAREE KKRREGLFQR SSRPRRSTSP PSRKLFKKEE PMLLLGDPSA SLTLLSLSSI
SECNSTRSLL RSDSDEIVVY EMPVSPVEAP PLSPCTHNPL VNVVVERFKR DPNQSLTPTH
VTLTTPSQPS SHRRTPSDGA LKPETLLASR SPSSNGLSPS PGAGMLKTPS PSRDPGEFPR
LPDPNVVFPP TPRRWNTQQD STLERPKTLE FLPRPRPSAN RQRLDPWWFV SPSHARSTSP
ANSSSTETPS NLDSCFASSS STVEERPGLP ALLPFQAGPL PPTERTLLDL DAEGQSQDST
VPLCRAELNT HRPAPYEQE EFWS

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

Product Details

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	MAP3K9
Alternative Name:	MAP3K9 (MAP3K9 Products)
Background:	Mitogen-activated protein kinase kinase kinase 9 (EC 2.7.11.25) (Mixed lineage kinase 1),FUNCTION: 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. Also plays 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:	121.9 kDa
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 guarantee though.
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Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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