

Datasheet for ABIN3093679

MAP3K14 Protein (AA 1-947) (Strep Tag)



[Go to Product page](#)

4 Images

Overview

Quantity:	1 mg
Target:	MAP3K14
Protein Characteristics:	AA 1-947
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K14 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence: MAVMEMACPG APGSAVGQQK ELPKAKEKTP PLGKKQSSVY KLEAVEKSPV FCGKWEILND
VITKGTAKG SEAGPAAISI IAQAECENSQ EFSPTFSERI FIAGSKQYSQ SESLDQIPNN
VAHATEGKMA RVCWKGKRRS KARKKRKKS SKSLAHAGVA LAKPLPRTPE QESCTIPVQE
DESPLGAPYV RNT PQFTKPL KEPGLGQLCF KQLGEGLRPA LPRSELHKLI SPLQCLNHVW
KLHHPQDGGP LPLPTHFPY SRLPHPPFFH PLQPWKPHPL ESFLGKLACV DSQKPLPDPH
LSKLACVDSP KPLPGPHLEP SCLSRGAHEK FSVEEYLVA LQGSVSSGQA HSLTSLAKTW
AARGSRREP SPKTEDNEGV LLTEKLPVD YEYREEVHWA THQLRLGRGS FGEVHRMEDK
QTGFQCAVKK VRLEVFRAEE LMACAGLTSP RIVPLYGAVR EGPWVNIFME LLEGGSLGQL
VKEQGCLPED RALYYLGQAL EGLEYLHARR ILHGDVKADN VLLSSDGS HA ALCDFGHAVC
LQPDGLGKSL LTGDYIPGTE THMAPEVVLG RSCDAKVDVW SSCMMLHML NGCHPWTQFF
RGPLCLKIAS EPPPVRIPP SCAPLTAQAI QEGLRKEPIH RVSAELGGK VNRALQQVGG
LKSPWRGEYK EPRHPPNQA NYHQTLHAQP RELSPRAPGP RPAEETTGRA PKLQPPLPPE

PPEPNKSPPL TLSKEESGMW EPLPLSSLEP APARNPSSPE RKATVPEQEL QQLEIELFLN
SLSQPFSLEE QEQILSCLSI DSLSLSDDE KNPSKASQSS RDTLSSGVHS WSSQAEARSS
SWNMVLARGR PTDTPSYFNG VKVQIQSLNG EHLHIREFHR VKVGDITGI SSQIPAAAFS
LVTKDGPVR YDMEVPDSGI DLQCTLAPDG SFAWSWRVKH GQLENRP

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:

- 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

- 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®): <ol style="list-style-type: none">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:	MAP3K14
Alternative Name:	MAP3K14 (MAP3K14 Products)
Background:	Mitogen-activated protein kinase kinase kinase 14 (EC 2.7.11.25) (NF-kappa-beta-inducing kinase) (HsNIK) (Serine/threonine-protein kinase NIK),FUNCTION: Lymphotoxin beta-activated kinase which seems to be exclusively involved in the activation of NF-kappa-B and its transcriptional activity. Phosphorylates CHUK/IKKA, thereby promoting proteolytic processing of NFKB2/P100, which leads to NF-kappa-B activation via the non-canonical pathway (PubMed:25406581, PubMed:29230214). Has an essential role in the non-canonical NF-kappa-B signaling that regulates genes encoding molecules involved in B-cell survival, lymphoid organogenesis, and immune response (PubMed:25406581). Could act in a receptor-selective manner. {ECO:0000269 PubMed:15084608, ECO:0000269 PubMed:25406581}.
Molecular Weight:	104.0 kDa
UniProt:	Q99558
Pathways:	NF-kappaB Signaling , TCR 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
--------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Application Details

guarantee though.

Comment: 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!

Restrictions: For Research Use only

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)

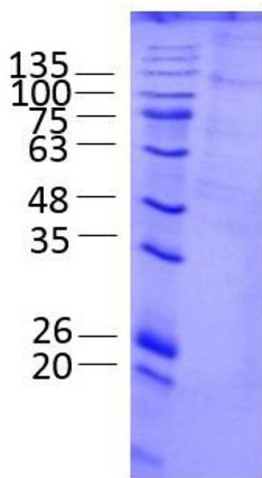
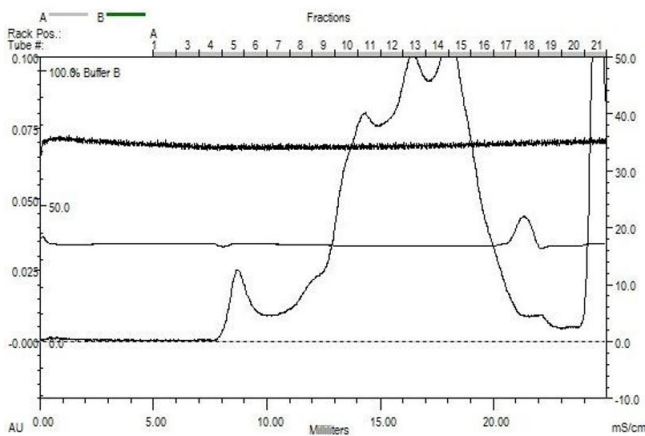


Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

SDS-PAGE

Image 2. Mitogen-Activated Protein Kinase Kinase Kinase 14 (AA 1-947), gel filtration Superose 6, fraction 7-9



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. Mitogen-Activated Protein Kinase Kinase Kinase 14 (AA 1-947), gel filtration Superose 6, fraction 7-9

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3093679.