Datasheet for ABIN3093679

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

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Overview

Quantity:	250 µg
Target:	MAP3K14
Protein Characteristics:	AA 1-947
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K14 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAVMEMACPG APGSAVGQQK ELPKAKEKTP PLGKKQSSVY KLEAVEKSPV FCGKWEILND VITKGTAKEG SEAGPAAISI IAQAECENSQ EFSPTFSERI FIAGSKQYSQ SESLDQIPNN VAHATEGKMA RVCWKGKRRS KARKKRKKKS SKSLAHAGVA LAKPLPRTPE QESCTIPVQE DESPLGAPYV RNTPQFTKPL KEPGLGQLCF KQLGEGLRPA LPRSELHKLI SPLQCLNHVW KLHHPQDGGP LPLPTHPFPY SRLPHPFPFH PLQPWKPHPL ESFLGKLACV DSQKPLPDPH LSKLACVDSP KPLPGPHLEP SCLSRGAHEK FSVEEYLVHA LQGSVSSGQA HSLTSLAKTW AARGSRSREP SPKTEDNEGV LLTEKLKPVD YEYREEVHWA THQLRLGRGS FGEVHRMEDK QTGFQCAVKK VRLEVFRAEE LMACAGLTSP RIVPLYGAVR EGPWVNIFME LLEGGSLGQL VKEQGCLPED RALYYLGQAL EGLEYLHSRR ILHGDVKADN VLLSSDGSHA ALCDFGHAVC LQPDGLGKSL LTGDYIPGTE THMAPEVVLG RSCDAKVDVW SSCCMMLHML NGCHPWTQFF RGPLCLKIAS EPPPVREIPP SCAPLTAQAI QEGLRKEPIH RVSAAELGGK VNRALQQVGG

LKSPWRGEYK EPRHPPPNQA NYHQTLHAQP RELSPRAPGP RPAEETTGRA PKLQPPLPPE PPEPNKSPPL TLSKEESGMW EPLPLSSLEP APARNPSSPE RKATVPEQEL QQLEIELFLN SLSQPFSLEE QEQILSCLSI DSLSLSDDSE KNPSKASQSS RDTLSSGVHS WSSQAEARSS SWNMVLARGR PTDTPSYFNG VKVQIQSLNG EHLHIREFHR VKVGDIATGI SSQIPAAAFS LVTKDGQPVR 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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 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

Application Details

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Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months