Datasheet for ABIN3093706

MAP3K13 Protein (AA 1-966) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MAP3K13
Protein Characteristics:	AA 1-966
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K13 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MANFQEHLSC SSSPHLPFSE SKTFNGLQDE LTAMGNHPSP KLLEDQQEKG MVRTELIESV HSPVTTTVLT SVSEDSRDQF ENSVLQLREH DESETAVSQG NSNTVDGEST SGTEDIKIQF SRSGSGSGGF LEGLFGCLRP VWNIIGKAYS TDYKLQQQDT WEVPFEEISE LQWLGSGAQG AVFLGKFRAE EVAIKKVREQ NETDIKHLRK LKHPNIIAFK GVCTQAPCYC IIMEYCAHGQ LYEVLRAGRK ITPRLLVDWS TGIASGMNYL HLHKIIHRDL KSPNVLVTHT DAVKISDFGT SKELSDKSTK MSFAGTVAWM APEVIRNEPV SEKVDIWSFG VVLWELLTGE IPYKDVDSSA IIWGVGSNSL HLPVPSTCPD GFKILMKQTW QSKPRNRPSF RQTLMHLDIA SADVLATPQE TYFKSQAEWR EEVKKHFEKI KSEGTCIHRL DEELIRRRRE ELRHALDIRE HYERKLERAN NLYMELSAIM LQLEMREKEL IKREQAVEKK YPGTYKRHPV RPIIHPNAME KLMKRKGVPH KSGMQTKRPD LLRSEGIPTT EVAPTASPLS GSPKMSTSSS KSRYRSKPRH RRGNSRGSHS DFAAILKNQP AQENSPHPTY LHQAQSQYPS LHHHNSLQQQ YQQPPPAMSQ SHHPRLNMHG

QDIATCANNL RYFGPAAALR SPLSNHAQRQ LPGSSPDLIS TAMAADCWRS SEPDKGQAGP WGCCQADAYD PCLQCRPEQY GSLDIPSAEP VGRSPDLSKS PAHNPLLENA QSSEKTEENE FSGCRSESSL GTSHLGTPPA LPRKTRPLQK SGDDSSEEEE GEVDSEVEFP RRQRPHRCIS SCQSYSTFSS ENFSVSDGEE GNTSDHSNSP DELADKLEDR LAEKLDDLLS QTPEIPIDIS SHSDGLSDKE CAVRRVKTQM SLGKLCVEER GYENPMQFEE SDCDSSDGEC SDATVRTNKH YSSATW

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.

Product Details

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

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:	MAP3K13
Alternative Name:	MAP3K13 (MAP3K13 Products)
Background:	Mitogen-activated protein kinase kinase kinase 13 (EC 2.7.11.25) (Leucine zipper-bearing kinase) (Mixed lineage kinase) (MLK),FUNCTION: Activates the JUN N-terminal pathway through activation of the MAP kinase kinase MAP2K7. Acts synergistically with PRDX3 to regulate the activation of NF-kappa-B in the cytosol. This activation is kinase-dependent and involves activating the IKK complex, the IKBKB-containing complex that phosphorylates inhibitors of NF-kappa-B. {ECO:0000269|PubMed:11726277, ECO:0000269|PubMed:12492477, ECO:0000269|PubMed:9353328}.
Molecular Weight:	108.3 kDa
UniProt:	O43283
Pathways:	Signaling Events mediated by VEGFR1 and VEGFR2

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