

Datasheet for ABIN3093862 MAPK10 Protein (AA 1-464) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MAPK10
Protein Characteristics:	AA 1-464
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPK10 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSLHFLYYCS EPTLDVKIAF CQGFDKQVDV SYIAKHYNMS KSKVDNQFYS VEVGDSTFTV
	LKRYQNLKPI GSGAQGIVCA AYDAVLDRNV AIKKLSRPFQ NQTHAKRAYR ELVLMKCVNH
	KNIISLLNVF TPQKTLEEFQ DVYLVMELMD ANLCQVIQME LDHERMSYLL YQMLCGIKHL
	HSAGIIHRDL KPSNIVVKSD CTLKILDFGL ARTAGTSFMM TPYVVTRYYR APEVILGMGY
	KENVDIWSVG CIMGEMVRHK ILFPGRDYID QWNKVIEQLG TPCPEFMKKL QPTVRNYVEN
	RPKYAGLTFP KLFPDSLFPA DSEHNKLKAS QARDLLSKML VIDPAKRISV DDALQHPYIN
	VWYDPAEVEA PPPQIYDKQL DEREHTIEEW KELIYKEVMN SEEKTKNGVV KGQPSPSGAA
	VNSSESLPPS SSVNDISSMS TDQTLASDTD SSLEASAGPL GCCR
	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.

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Product Details

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 posttranslational 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.

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

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Target Details

Target:	MAPK10
Alternative Name:	MAPK10 (MAPK10 Products)
Background:	Mitogen-activated protein kinase 10 (MAP kinase 10) (MAPK 10) (EC 2.7.11.24) (MAP kinase
	p49 3F12) (Stress-activated protein kinase 1b) (SAPK1b) (Stress-activated protein kinase JNK3
	(c-Jun N-terminal kinase 3),FUNCTION: Serine/threonine-protein kinase involved in various
	processes such as neuronal proliferation, differentiation, migration and programmed cell death.
	Extracellular stimuli such as pro-inflammatory cytokines or physical stress stimulate the stress
	activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. In this cascade
	two dual specificity kinases MAP2K4/MKK4 and MAP2K7/MKK7 phosphorylate and activate
	MAPK10/JNK3. In turn, MAPK10/JNK3 phosphorylates a number of transcription factors,
	primarily components of AP-1 such as JUN and ATF2 and thus regulates AP-1 transcriptional
	activity. Plays regulatory roles in the signaling pathways during neuronal apoptosis.
	Phosphorylates the neuronal microtubule regulator STMN2. Acts in the regulation of the
	amyloid-beta precursor protein/APP signaling during neuronal differentiation by
	phosphorylating APP. Participates also in neurite growth in spiral ganglion neurons.
	Phosphorylates the CLOCK-BMAL1 heterodimer and plays a role in the photic regulation of the
	circadian clock (PubMed:22441692). Phosphorylates JUND and this phosphorylation is
	inhibited in the presence of MEN1 (PubMed:22327296). {ECO:0000269 PubMed:11718727,
	EC0:0000269 PubMed:22327296, EC0:0000269 PubMed:22441692}.
Molecular Weight:	52.6 kDa
UniProt:	P53779
Pathways:	MAPK Signaling, WNT Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway,
	Activation of Innate immune Response, Hepatitis C, Toll-Like Receptors Cascades
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

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
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	During lysate production, the cell wall and other cellular components that are not required for

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Application Details	
	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. 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