

Datasheet for ABIN3135070 MAPKAP Kinase 3 Protein (AA 1-384) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MAPKAP Kinase 3 (MAPKAPK3)
Protein Characteristics:	AA 1-384
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPKAP Kinase 3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDGETAGEKG SLVPPPGALG GSALGGAPAP GVRREPKKYA VTDDYQLSKQ VLGLGVNGKV
	LECYHRRSGQ KCALKLLYDS PKARQEVDHH WQASGGPHIV RILDVYENMH HGKRCLLIVM
	ECMEGGELFS RIQERGDQAF TEREAAEIMR DIGTAIQFLH SRNIAHRDVK PENLLYTSKE
	KDAVLKLTDF GFAKETTQNA LQTPCYTPYY VAPEVLGPEK YDKSCDMWSL GVIMYILLCG
	FPPFYSNTGQ AISPGMKRRI RLGQYSFPNP EWLDVSEDAK QLIRLLLKTD PTERLTIMQF
	MNHPWINQSM VVPQTPLYTA RVLQEDKDHW DDVKEEMTSA LATMRVDYDQ VKIKDLKTSN
	NRLLNKRRKK QAGSSSASQG CNNQ
	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:

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- 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
Target Details	

Target:

MAPKAP Kinase 3 (MAPKAPK3)

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Target Details	
Alternative Name:	Mapkapk3 (MAPKAPK3 Products)
Background:	MAP kinase-activated protein kinase 3 (MAPK-activated protein kinase 3) (MAPKAP kinase 3)
	(MAPKAP-K3) (MAPKAPK-3) (MK-3) (EC 2.7.11.1),FUNCTION: Stress-activated
	serine/threonine-protein kinase involved in cytokines production, endocytosis, cell migration,
	chromatin remodeling and transcriptional regulation. Following stress, it is phosphorylated and
	activated by MAP kinase p38-alpha/MAPK14, leading to phosphorylation of substrates.
	Phosphorylates serine in the peptide sequence, Hyd-X-R-X(2)-S, where Hyd is a large
	hydrophobic residue. MAPKAPK2 and MAPKAPK3, share the same function and substrate
	specificity, but MAPKAPK3 kinase activity and level in protein expression are lower compared to
	MAPKAPK2. Phosphorylates HSP27/HSPB1, KRT18, KRT20, RCSD1, RPS6KA3, TAB3 and
	TTP/ZFP36. Mediates phosphorylation of HSP27/HSPB1 in response to stress, leading to
	dissociate HSP27/HSPB1 from large small heat-shock protein (sHsps) oligomers and impair
	their chaperone activities and ability to protect against oxidative stress effectively. Involved in
	inflammatory response by regulating tumor necrosis factor (TNF) and IL6 production post-
	transcriptionally: acts by phosphorylating AU-rich elements (AREs)-binding proteins, such as
	TTP/ZFP36, leading to regulate the stability and translation of TNF and IL6 mRNAs.
	Phosphorylation of TTP/ZFP36, a major post-transcriptional regulator of TNF, promotes its
	binding to 14-3-3 proteins and reduces its ARE mRNA affinity leading to inhibition of dependent
	degradation of ARE-containing transcript. Involved in toll-like receptor signaling pathway (TLR)
	in dendritic cells: required for acute TLR-induced macropinocytosis by phosphorylating and
	activating RPS6KA3. Also acts as a modulator of Polycomb-mediated repression.
	{EC0:0000269 PubMed:17906627, EC0:0000269 PubMed:20724476}.
Molecular Weight:	43.3 kDa
UniProt:	Q3UMW7
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-
r utiways.	Like Receptors Cascades
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

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	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	
Handling Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer.
Format:	· · · · · · · · · · · · · · · · · · ·
Format:	The buffer composition is at the discretion of the manufacturer.
Format: 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.
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.