

Datasheet for ABIN3135494 MAP3K7 Protein (AA 1-579) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MAP3K7
Protein Characteristics:	AA 1-579
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSTASAASSS SSSSASEMIE APSQVLNFEE IDYKEIEVEE VVGRGAFGVV CKAKWRAKDV
	AIKQIESESE RKAFIVELRQ LSRVNHPNIV KLYGACLNPV CLVMEYAEGG SLYNVLHGAE
	PLPYYTAAHA MSWCLQCSQG VAYLHSMQPK ALIHRDLKPP NLLLVAGGTV LKICDFGTAC
	DIQTHMTNNK GSAAWMAPEV FEGSNYSEKC DVFSWGIILW EVITRRKPFD EIGGPAFRIM
	WAVHNGTRPP LIKNLPKPIE SLMTRCWSKD PSQRPSMEEI VKIMTHLMRY FPGADEPLQY
	PCQYSDEGQS NSATSTGSFM DIASTNTSNK SDTNMEQVPA TNDTIKRLES KLLKNQAKQQ
	SESGRLSLGA SRGSSVESLP PTSEGKRMSA DMSEIEARIV ATAGNGQPRR RSIQDLTVTG
	TEPGQVSSRS SSPSVRMITT SGPTSEKPAR SHPWTPDDST DTNGSDNSIP MAYLTLDHQL
	QPLAPCPNSK ESMAVFEQHC KMAQEYMKVQ TEIALLLQRK QELVAELDQD EKDQQNTSRL
	VQEHKKLLDE NKSLSTYYQQ CKKQLEVIRS QQQKRQGTS
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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 fo 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:

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custom-made

Target:	MAP3K7
Alternative Name:	Map3k7 (MAP3K7 Products)
Background:	Mitogen-activated protein kinase kinase kinase 7 (EC 2.7.11.25) (Transforming growth factor-
	beta-activated kinase 1) (TGF-beta-activated kinase 1),FUNCTION: Serine/threonine kinase
	which acts as an essential component of the MAP kinase signal transduction pathway
	(PubMed:10748100, PubMed:16157589, PubMed:21183079, PubMed:29291351). Plays an
	important role in the cascades of cellular responses evoked by changes in the environment
	(PubMed:10748100, PubMed:16157589, PubMed:21183079, PubMed:29291351). Mediates
	signal transduction of TRAF6, various cytokines including interleukin-1 (IL-1), transforming
	growth factor-beta (TGFB), TGFB-related factors like BMP2 and BMP4, toll-like receptors (TLR)
	tumor necrosis factor receptor CD40 and B-cell receptor (BCR) (PubMed:8533096,
	PubMed:10748100, PubMed:16157589, PubMed:21183079, PubMed:29291351). Once
	activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the
	p38 MAPK signal transduction cascade through the phosphorylation and activation of several
	MAP kinase kinases like MAP2K1/MEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK
	(By similarity). These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs
	both p38 MAPK and JNK pathways control the transcription factors activator protein-1 (AP-1)
	(By similarity). Independently of MAP2Ks and p38 MAPKs, acts as a key activator of NF-kappa
	B by promoting activation of the I-kappa-B-kinase (IKK) core complex (PubMed:17965022).
	Mechanistically, recruited to polyubiquitin chains of RIPK2 and IKBKG/NEMO via
	TAB2/MAP3K7IP2 and TAB3/MAP3K7IP3, and catalyzes phosphorylation and activation of
	IKBKB/IKKB component of the IKK complex, leading to NF-kappa-B activation (By similarity). Ir
	osmotic stress signaling, plays a major role in the activation of MAPK8/JNK1, but not that of
	NF-kappa-B (By similarity). Promotes TRIM5 capsid-specific restriction activity (By similarity).
	Phosphorylates RIPK1 at 'Ser-321' which positively regulates RIPK1 interaction with RIPK3 to
	promote necroptosis but negatively regulates RIPK1 kinase activity and its interaction with
	FADD to mediate apoptosis (PubMed:28842570). Phosphorylates STING1 in response to
	cGAMP-activation, promoting association between STEEP1 and STING1 and STING1
	translocation to COPII vesicles (PubMed:37832545). {ECO:0000250 UniProtKB:043318,
	ECO:0000269 PubMed:10748100, ECO:0000269 PubMed:16157589,
	EC0:0000269 PubMed:17965022, EC0:0000269 PubMed:21183079,
	EC0:0000269 PubMed:28842570, EC0:0000269 PubMed:29291351,
	ECO:0000269 PubMed:37832545, ECO:0000269 PubMed:8533096}.
Molecular Weight:	64.2 kDa

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Target Details		
UniProt:	Q62073	
Pathways:	NF-kappaB Signaling, TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Tube Formation, Toll-Like Receptors Cascades, BCR Signaling, Ubiquitin Proteasome Pathway	
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 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	

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