

Datasheet for ABIN3093652

MAP4K1 Protein (AA 1-833) (Strep Tag)



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Quantity:	250 μg
Target:	MAP4K1
Protein Characteristics:	AA 1-833
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP4K1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details		
Brand:	AliCE®	
Sequence:	MDVVDPDIFN RDPRDHYDLL QRLGGGTYGE VFKARDKVSG DLVALKMVKM EPDDDVSTLQ	
	KEILILKTCR HANIVAYHGS YLWLQKLWIC MEFCGAGSLQ DIYQVTGSLS ELQISYVCRE	
	VLQGLAYLHS QKKIHRDIKG ANILINDAGE VRLADFGISA QIGATLARRL SFIGTPYWMA	
	PEVAAVALKG GYNELCDIWS LGITAIELAE LQPPLFDVHP LRVLFLMTKS GYQPPRLKEK	
	GKWSAAFHNF IKVTLTKSPK KRPSATKMLS HQLVSQPGLN RGLILDLLDK LKNPGKGPSI	
	GDIEDEEPEL PPAIPRRIRS THRSSSLGIP DADCCRRHME FRKLRGMETR PPANTARLQP	
	PRDLRSSSPR KQLSESSDDD YDDVDIPTPA EDTPPPLPPK PKFRSPSDEG PGSMGDDGQL	
	SPGVLVRCAS GPPPNSPRPG PPPSTSSPHL TAHSEPSLWN PPSRELDKPP LLPPKKEKMK	
	RKGCALLVKL FNGCPLRIHS TAAWTHPSTK DQHLLLGAEE GIFILNRNDQ EATLEMLFPS	
	RTTWVYSINN VLMSLSGKTP HLYSHSILGL LERKETRAGN PIAHISPHRL LARKNMVSTK	
	IQDTKGCRAC CVAEGASSGG PFLCGALETS VVLLQWYQPM NKFLLVRQVL FPLPTPLSVF	

ALLTGPGSEL PAVCIGVSPG RPGKSVLFHT VRFGALSCWL GEMSTEHRGP VQVTQVEEDM VMVLMDGSVK LVTPEGSPVR GLRTPEIPMT EAVEAVAMVG GQLQAFWKHG VQVWALGSDQ LLQELRDPTL TFRLLGSPRL ECSGTISPHC NLLLPGSSNS PASASRVAGI TGL

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 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

Product Details

Troduct Details		
	System (AliCE®).	
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).	
Grade:	custom-made	
Target Details		
Target:	MAP4K1	
Alternative Name:	MAP4K1 (MAP4K1 Products)	
Background:	Mitogen-activated protein kinase kinase kinase kinase 1 (EC 2.7.11.1) (Hematopoietic	
	progenitor kinase) (MAPK/ERK kinase kinase kinase 1) (MEK kinase kinase 1) (MEKKK	
	1),FUNCTION: Serine/threonine-protein kinase, which may play a role in the response to	
	environmental stress (PubMed:24362026). Appears to act upstream of the JUN N-terminal	
	pathway (PubMed:8824585). May play a role in hematopoietic lineage decisions and growth	
	regulation (PubMed:8824585, PubMed:24362026). Able to autophosphorylate	
	(PubMed:8824585). Together with CLNK, it enhances CD3-triggered activation of T-cells and	
	subsequent IL2 production (By similarity). {ECO:0000250 UniProtKB:P70218,	
	ECO:0000269 PubMed:24362026, ECO:0000269 PubMed:8824585}.	
Molecular Weight:	91.3 kDa	
UniProt:	Q92918	
Pathways:	TCR Signaling, Signaling of Hepatocyte Growth Factor Receptor	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studie	
	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 produc	
	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	

Application Details

	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