Datasheet for ABIN3093635

MAP3K11 Protein (AA 1-847) (Strep Tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	MAP3K11
Protein Characteristics:	AA 1-847
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K11 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEPLKSLFLK SPLGSWNGSG SGGGGGGGGG RPEGSPKAAG YANPVWTALF DYEPSGQDEL ALRKGDRVEV LSRDAAISGD EGWWAGQVGG QVGIFPSNYV SRGGGPPPCE VASFQELRLE EVIGIGGFGK VYRGSWRGEL VAVKAARQDP DEDISVTAES VRQEARLFAM LAHPNIIALK AVCLEEPNLC LVMEYAAGGP LSRALAGRRV PPHVLVNWAV QIARGMHYLH CEALVPVIHR DLKSNNILLL QPIESDDMEH KTLKITDFGL AREWHKTTQM SAAGTYAWMA PEVIKASTFS KGSDVWSFGV LLWELLTGEV PYRGIDCLAV AYGVAVNKLT LPIPSTCPEP FAQLMADCWA QDPHRRPDFA SILQQLEALE AQVLREMPRD SFHSMQEGWK REIQGLFDEL RAKEKELLSR EEELTRAARE QRSQAEQLRR REHLLAQWEL EVFERELTLL LQQVDRERPH VRRRRGTFKR SKLRARDGGE RISMPLDFKH RITVQASPGL DRRRNVFEVG PGDSPTFPRF RAIQLEPAEP GQAWGRQSPR RLEDSSNGER RACWAWGPSS PKPGEAQNGR RRSRMDEATW YLDSDDSSPL GSPSTPPALN GNPPRPSLEP EEPKRPVPAE RGSSSGTPKL IQRALLRGTA LLASLGLGRD LQPPGGPGRE RGESPTTPPT PTPAPCPTEP PPSPLICFSL KTPDSPPTPA PLLLDLGIPV

GQRSAKSPRR EEEPRGGTVS PPPGTSRSAP GTPGTPRSPP LGLISRPRPS PLRSRIDPWS FVSAGPRPSP LPSPQPAPRR APWTLFPDSD PFWDSPPANP FQGGPQDCRA QTKDMGAQAP WVPEAGP

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	MAP3K11
Alternative Name:	MAP3K11 (MAP3K11 Products)
Background:	Mitogen-activated protein kinase kinase kinase 11 (EC 2.7.11.25) (Mixed lineage kinase 3) (Src-homology 3 domain-containing proline-rich kinase),FUNCTION: Activates the JUN N-terminal pathway. Required for serum-stimulated cell proliferation and for mitogen and cytokine activation of MAPK14 (p38), MAPK3 (ERK) and MAPK8 (JNK1) through phosphorylation and activation of MAP2K4/MKK4 and MAP2K7/MKK7. Plays a role in mitogen-stimulated phosphorylation and activation of BRAF, but does not phosphorylate BRAF directly. Influences microtubule organization during the cell cycle. {ECO:0000269|PubMed:12529434, ECO:0000269|PubMed:15258589, ECO:0000269|PubMed:8195146, ECO:0000269|PubMed:9003778}.
Molecular Weight:	92.7 kDa
UniProt:	Q16584
Pathways:	MAPK Signaling, Interferon-gamma 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

Application Details

	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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process