

Datasheet for ABIN3093680 ASK1 Protein (AA 1-1374) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ASK1 (MAP3K5)
Protein Characteristics:	AA 1-1374
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASK1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSTEADEGIT FSVPPFAPSG FCTIPEGGIC RRGGAAAVGE GEEHQLPPPP PGSFWNVESA
	AAPGIGCPAA TSSSSATRGR GSSVGGGSRR TTVAYVINEA SQGQLVVAES EALQSLREAC
	ETVGATLETL HFGKLDFGET TVLDRFYNAD IAVVEMSDAF RQPSLFYHLG VRESFSMANN
	IILYCDTNSD SLQSLKEIIC QKNTMCTGNY TFVPYMITPH NKVYCCDSSF MKGLTELMQP
	NFELLLGPIC LPLVDRFIQL LKVAQASSSQ YFRESILNDI RKARNLYTGK ELAAELARIR
	QRVDNIEVLT ADIVINLLLS YRDIQDYDSI VKLVETLEKL PTFDLASHHH VKFHYAFALN
	RRNLPGDRAK ALDIMIPMVQ SEGQVASDMY CLVGRIYKDM FLDSNFTDTE SRDHGASWFK
	KAFESEPTLQ SGINYAVLLL AAGHQFESSF ELRKVGVKLS SLLGKKGNLE KLQSYWEVGF
	FLGASVLAND HMRVIQASEK LFKLKTPAWY LKSIVETILI YKHFVKLTTE QPVAKQELVD
	FWMDFLVEAT KTDVTVVRFP VLILEPTKIY QPSYLSINNE VEEKTISIWH VLPDDKKGIH
	EWNFSASSVR GVSISKFEER CCFLYVLHNS DDFQIYFCTE LHCKKFFEMV NTITEEKGRS

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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

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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:	ASK1 (MAP3K5)
Alternative Name:	MAP3K5 (MAP3K5 Products)
Background:	Mitogen-activated protein kinase kinase kinase 5 (EC 2.7.11.25) (Apoptosis signal-regulating
	kinase 1) (ASK-1) (MAPK/ERK kinase kinase 5) (MEK kinase 5) (MEKK 5),FUNCTION:
	Serine/threonine kinase which acts as an essential component of the MAP kinase signal
	transduction pathway. Plays an important role in the cascades of cellular responses evoked by
	changes in the environment. Mediates signaling for determination of cell fate such as
	differentiation and survival. Plays a crucial role in the apoptosis signal transduction pathway
	through mitochondria-dependent caspase activation. MAP3K5/ASK1 is required for the innate
	immune response, which is essential for host defense against a wide range of pathogens.
	Mediates signal transduction of various stressors like oxidative stress as well as by receptor-
	mediated inflammatory signals, such as the tumor necrosis factor (TNF) or lipopolysaccharide
	(LPS). 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 MAP2K4/SEK1, MAP2K3/MKK3, MAP2K6/MKK6
	and MAP2K7/MKK7. These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases
	(JNKs). Both p38 MAPK and JNKs control the transcription factors activator protein-1 (AP-1).
	{ECO:0000269 PubMed:10411906, ECO:0000269 PubMed:10688666,
	ECO:0000269 PubMed:10849426, ECO:0000269 PubMed:11029458,

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Format:	Liquid
Handling	
Restrictions:	For Research Use only
	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!
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
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.
Application Details	
Pathways:	MAPK Signaling, Positive Regulation of Endopeptidase Activity, Unfolded Protein Response
UniProt:	Q99683
Molecular Weight:	154.5 kDa
	EC0:0000269 PubMed:9564042, EC0:0000269 PubMed:9774977}.
	EC0:0000269 PubMed:8940179, EC0:0000269 PubMed:8974401,
	ECO:0000269 PubMed:16129676, ECO:0000269 PubMed:17220297, ECO:0000269 PubMed:23102700, ECO:0000269 PubMed:26095851,
	EC0:0000269 PubMed:14749717, EC0:0000269 PubMed:15023544,
	EC0:0000269 PubMed:11920685, EC0:0000269 PubMed:14688258,

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.

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months