

Datasheet for ABIN3093174

## MAPK8IP1 Protein (AA 1-711) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	MAPK8IP1
Protein Characteristics:	AA 1-711
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPK8IP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MAERESGGLG GGAASPPAAS PFLGLHIASP PNFRLTHDIS LEEFEDEDLS EITDECGISL</p> <p>QCKDTLSLRP PRAGLLSAGG GGAGSRLQAE MLQMDLIDAT GDTPGAEDDE EDDDEERAAR</p> <p>RPGAGPPKAE SGQEPASRGQ GQSQQSQSQGP GSGDTPRPKR PTTLNLFPQV PRSQDTLNNN</p> <p>SLGKKHSWQD RVSRSSSPLK TGEQTPPHEH ICLSDELPPQ SGPAPTTDRG TSTDSPCRRS</p> <p>TATQMAPPGG PPAAPPGGRG HSHRDRIHYQ ADVRLEATEE IYLTVPQRPP DAAEPTSAFL</p> <p>PPTESRMSVS SDPDPAAYPS TAGRPHPSIS EEEEGFDCLS SPERAEPGG GWRGSLGEPP</p> <p>PPPRASLSSD TSALSYDSVK YTLVVDEHAQ LELVSLRPCF GDYSDESDSA TVYDNCASVS</p> <p>SPYESAIGEE YEEAPRPQPP ACLSEDSTPD EPDVHFSKKF LNVFMSGRSR SSSAESFGLF</p> <p>SCIINGEEQE QTHRAIFRFV PRHEDELELE VDDPLLVELQ AEDYWYEAYN MRTGARGVFP</p> <p>AYYAIEVTKE PEHMAALAKN SDWVDQFRVK FLGSVQVPYH KGNDVLCAM QKIATTRRLT</p> <p>VHFNPPSSCV LEISVRGVKI GVKADDSQEA KGNKCSHFFQ LKNISFCGYH PKNNKYFGFI</p>

TKHPADHRFA CHVFVSEDST KALAESVGRA FQQFYKQFVE YTCPTEDIYL E

**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.**

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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 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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## Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: MAPK8IP1

Alternative Name: MAPK8IP1 ([MAPK8IP1 Products](#))

Background: C-Jun-amino-terminal kinase-interacting protein 1 (JIP-1) (JNK-interacting protein 1) (Islet-brain 1) (IB-1) (JNK MAP kinase scaffold protein 1) (Mitogen-activated protein kinase 8-interacting protein 1),FUNCTION: The JNK-interacting protein (JIP) group of scaffold proteins selectively mediates JNK signaling by aggregating specific components of the MAPK cascade to form a functional JNK signaling module. Required for JNK activation in response to excitotoxic stress. Cytoplasmic MAPK8IP1 causes inhibition of JNK-regulated activity by retaining JNK in the cytoplasm and inhibiting JNK phosphorylation of c-Jun. May also participate in ApoER2-specific reelin signaling. Directly, or indirectly, regulates GLUT2 gene expression and beta-cell function. Appears to have a role in cell signaling in mature and developing nerve terminals. May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins. Functions as an anti-apoptotic protein and whose level seems to influence the beta-cell death or survival response. Acts as a scaffold protein that coordinates with SH3RF1 in organizing different components of the JNK pathway, including RAC1 or RAC2, MAP3K11/MLK3 or MAP3K7/TAK1, MAP2K7/MKK7, MAPK8/JNK1 and/or MAPK9/JNK2 into a functional multiprotein complex to ensure the effective activation of the JNK signaling pathway. Regulates the activation of MAPK8/JNK1 and differentiation of CD8(+) T-cells. {ECO:0000250|UniProtKB:Q9WVI9}.

Molecular Weight: 77.5 kDa

UniProt: [Q9UQF2](#)

## 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

Application Details

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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months