

Datasheet for ABIN3137233

JIP3 Protein (AA 1-1337) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	JIP3 (MAPK8IP3)
Protein Characteristics:	AA 1-1337
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This JIP3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MMEIQMDEGG GVVVYQDDYC SG SVMSERVS GLAGSIYREF ERLHCYDEE VVKELMPLVV</p> <p>NVLENLDSVL SENQEHEVEL ELLREDNEQL LTQYEREKAL RKQAE EK FIE FEDALEQ EKK</p> <p>ELQIQVEHYE FQTRQLELKA KNYADQISRL EERESEMKKE YNALHQRHTE MIQTYVEHIE</p> <p>RSKMQQVGGS GQTESSLPGR SRKERPTSLN VFPLADGMVR AQMGGKLVPA GDHWHLSDLG</p> <p>QLQSSSSYQC PNDEMSSEGQ SSAAATPSTT GTKSNTPTSS VPSAAVTPLN ESLQPLGDYV</p> <p>SVTKNNKQAR EKRNSRNMEV QVTQEMRNVS IGMGSSDEWS DVQDIIDSTP ELDVCPETRL</p> <p>ERTGSSPTQG IVNKAFGIN TDSL YHELSTA GSEVIGDVDE GADLLGEFSV RDDFFGMGKE</p> <p>VGNLLLENSQ LLETKNALNV VKNDLIAKVD QLSGEQEV LK GELEAAKQAK VKLENRIKEL</p> <p>EEELKRVKSE AVTARREPRE EVEDVSSYLC TELDKIPMAQ RRRFTRVEMA RVL MERNQYK</p> <p>ERLMELQEAV RWTEMIRASR EHPSVQEKKK STIWQFFSRL FSSSSSPPPA KRSYPSVNIH</p> <p>YKSPTAAGFS QRRSHALCQI SAGSRPLEFF PDDDCTSSAR REQKREQYRQ VREHVRNDDG</p>

RLQACGWSLP AKYKQLSPNG GQEDTRMKNV PVPVYCRPLV EKDPSTKLWC AAGVNLSGWK
PHEEDSSNGP KPVPGRDPLT CDREGEGERPK STHPSPEKKK AKETPEADAT SSRVWILTST
LTTSKVVID ANQPGTIVDQ FTVCNHAVLC ISSIPAASDS DYPPGEMFLD SDVNPEDSGA
DGVLAGITLV GCATRCNVPR SNCSSRGDTP VLDKGQGDVA TTANGKVNPS QSTEEATEAT
EVPDPGPSES EATTVRPGPL TEHVFTDPAP TPSSSTQPAS ENGSESNGTI VQPQVEPSGE
LSTTTSSAAP TMWLGAQNGW LYVHSAVANW KKCLHSIKLK DSVLSLVHVK GRVLVALADG
TLAIFHRGED GQWDLSNYHL MDLGHPHHSI RCMAVVNDRV WCGYKNKVHV IQPKTMQIEK
SFDAHPRRES QVRQLAWIGD GVWVSIRLDS TLRLYHAHTH QHLQDVDIEP YVSKMLGTGK
LGFSFVRITA LLIAGNRLWV GTGNGVVISI PLTETVVLHR GQLLGLRANK TSPTSSEGTR
PGGIIHVGVD DSSDKAASSF IPYCSMAQAA LCFHGHRDAV KFFVSVPGNV LATLNGSVLD
SPSEGGPAA PAADAEGQKL KNALVLSGGE GYIDFRIGDG EDDETEECAG DVNQTKPSLS
KAERSHIIWV QVSYTPE

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 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

Product Details

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:	custom-made

Target Details

Target:	JIP3 (MAPK8IP3)
Alternative Name:	Mapk8ip3 (MAPK8IP3 Products)
Background:	<p>C-Jun-amino-terminal kinase-interacting protein 3 (JIP-3) (JNK-interacting protein 3) (JNK MAP kinase scaffold protein 3) (JNK/SAPK-associated protein 1) (JSAP1) (Mitogen-activated protein kinase 8-interacting protein 3) (Sunday driver 2),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. May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins (PubMed:10523642, PubMed:10629060). Promotes neuronal axon elongation in a kinesin- and JNK-dependent manner (PubMed:23576431, PubMed:25944905, PubMed:28259553). Activates cofilin at axon tips via local activation of JNK, thereby regulating filopodial dynamics and enhancing axon elongation (PubMed:23576431, PubMed:25944905, PubMed:28259553). Its binding to kinesin heavy chains (KHC), promotes kinesin-1 motility along microtubules and is essential for axon elongation and regeneration (PubMed:23576431, PubMed:25944905, PubMed:28259553). Regulates cortical neuronal migration by mediating NTRK2/TRKB anterograde axonal transport during brain development (PubMed:23576431, PubMed:25944905, PubMed:28259553). Acts as an adapter that bridges the interaction between NTRK2/TRKB and KLC1 and drives NTRK2/TRKB axonal but not dendritic anterograde transport, which is essential for subsequent BDNF-triggered signaling and filopodia formation</p>

Target Details

(PubMed:23576431, PubMed:25944905, PubMed:28259553).

{ECO:0000269|PubMed:10523642, ECO:0000269|PubMed:10629060, ECO:0000269|PubMed:23576431, ECO:0000269|PubMed:25944905, ECO:0000269|PubMed:28259553}.

Molecular Weight: 147.6 kDa

UniProt: [Q9ESN9](#)

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