Datasheet for ABIN3093269

JIP3 Protein (AA 1-1336) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	JIP3 (MAPK8IP3)
Protein Characteristics:	AA 1-1336
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This JIP3 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MMEIQMDEGG GVVVYQDDYC SGSVMSERVS GLAGSIYREF ERLIHCYDEE VVKELMPLVV NVLENLDSVL SENQEHEVEL ELLREDNEQL LTQYEREKAL RRQAEEKFIE FEDALEQEKK ELQIQVEHYE FQTRQLELKA KNYADQISRL EERESEMKKE YNALHQRHTE MIQTYVEHIE RSKMQQVGGN SQTESSLPGR RKERPTSLNV FPLADGTVRA QIGGKLVPAG DHWHLSDLGQ LQSSSSYQCP QDEMSESGQS SAAATPSTTG TKSNTPTSSV PSAAVTPLNE SLQPLGDYGV GSKNSKRARE KRDSRNMEVQ VTQEMRNVSI GMGSSDEWSD VQDIIDSTPE LDMCPETRLD RTGSSPTQGI VNKAFGINTD SLYHELSTAG SEVIGDVDEG ADLLGEFSVR DDFFGMGKEV GNLLLENSQL LETKNALNVV KNDLIAKVDQ LSGEQEVLRG ELEAAKQAKV KLENRIKELE EELKRVKSEA IIARREPKEE AEDVSSYLCT ESDKIPMAQR RRFTRVEMAR VLMERNQYKE RLMELQEAVR WTEMIRASRE HPSVQEKKKS TIWQFFSRLF SSSSSPPPAK RPYPSVNIHY KSPTTAGFSQ RRNHAMCPIS AGSRPLEFFP DDDCTSSARR EQKREQYRQV REHVRNDDGR LQACGWSLPA KYKQLSPNGG QEDTRMKNVP VPVYCRPLVE KDPTMKLWCA AGVNLSGWRP

NEDDAGNGVK PAPGRDPLTC DREGDGEPKS AHTSPEKKKA KELPEMDATS SRVWILTSTL TTSKVVIIDA NQPGTVVDQF TVCNAHVLCI SSIPAASDSD YPPGEMFLDS DVNPEDPGAD GVLAGITLVG CATRCNVPRS NCSSRGDTPV LDKGQGEVAT IANGKVNPSQ STEEATEATE VPDPGPSEPE TATLRPGPLT EHVFTDPAPT PSSGPQPGSE NGPEPDSSST RPEPEPSGDP TGAGSSAAPT MWLGAQNGWL YVHSAVANWK KCLHSIKLKD SVLSLVHVKG RVLVALADGT LAIFHRGEDG QWDLSNYHLM DLGHPHHSIR CMAVVYDRVW CGYKNKVHVI QPKTMQIEKS FDAHPRRESQ VRQLAWIGDG VWVSIRLDST LRLYHAHTHQ HLQDVDIEPY VSKMLGTGKL GFSFVRITAL LVAGSRLWVG TGNGVVISIP LTETVVLHRG QLLGLRANKT SPTSGEGARP GGIIHVYGDD SSDRAASSFI PYCSMAQAQL CFHGHRDAVK FFVSVPGNVL ATLNGSVLDS PAEGPGPAAP ASEVEGQKLR NVLVLSGGEG YIDFRIGDGE DDETEEGAGD MSQVKPVLSK AERSHIIVWQ VSYTPE

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

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 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.
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:	JIP3 (MAPK8IP3)
Alternative Name:	MAPK8IP3 (MAPK8IP3 Products)
Background:	C-Jun-amino-terminal kinase-interacting protein 3 (JIP-3) (JNK-interacting protein 3) (JNK MAP kinase scaffold protein 3) (Mitogen-activated protein kinase 8-interacting protein 3),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 (PubMed:12189133). May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins (By similarity). Promotes neuronal axon elongation in a kinesin- and JNK-dependent manner. Activates cofilin at axon tips via local activation of JNK, thereby regulating filopodial dynamics and enhancing axon elongation. Its binding to kinesin heavy chains (KHC), promotes kinesin-1 motility along microtubules and is essential for axon elongation and regeneration. Regulates cortical neuronal migration by mediating NTRK2/TRKB anterograde axonal transport during brain development

Target Details

	(By similarity). 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 (PubMed:21775604). {ECO:0000250|UniProtKB:Q9ESN9, ECO:0000269|PubMed:12189133, ECO:0000269|PubMed:21775604}.
Molecular Weight:	147.5 kDa
UniProt:	Q9UPT6

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. 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)

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