

Datasheet for ABIN3135493 PIM2 Protein (AA 1-370) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PIM2
Protein Characteristics:	AA 1-370
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIM2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MARATNLNAA PSAGASGPPD SLPSTLAPPS PGSPAALPRA STPCGLSGFS GLNIRSTSSM
	LTKPLQGHPS PPVTPTQPPG GKDRAAFEAE YRLGPLLGKG GFGTVFAGHR VTDRRQVAIK
	VISRNRVLGW STVSDSVTCP LEVALLWKVG EGNGHPGVIR LLDWFETPEG FMLVLERPMP
	AQDLFDYITE KGPLGESCSR SFFTQVVAAV QHCHARGVVH RDIKDENILI DLCRGSIKLI
	DFGSGALLHD EPYTDFDGTR VYSPPEWISR HQYHALPATV WSLGVLLYDM VCGDIPFERD
	QEILEAELHF PAHVSPDCCA LIRRCLAPKP CSRPSLEEIL LDPWMQSPAE EKPINSSKGS
	PTPLPWSLLP
	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:

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- 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
 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:	made-to-order
Target Details	
Target:	PIM2

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Target Details	
Alternative Name:	Pim2 (PIM2 Products)
Background:	Serine/threonine-protein kinase pim-2 (EC 2.7.11.1),FUNCTION: Proto-oncogene with
	serine/threonine kinase activity involved in cell survival and cell proliferation. Exerts its
	oncogenic activity through: the regulation of MYC transcriptional activity, the regulation of cell
	cycle progression, the regulation of cap-dependent protein translation and through survival
	signaling by phosphorylation of a pro-apoptotic protein, BAD. Phosphorylation of MYC leads to
	an increase of MYC protein stability and thereby an increase of transcriptional activity. The
	stabilization of MYC exerted by PIM2 might explain partly the strong synergism between these
	2 oncogenes in tumorigenesis. Regulates cap-dependent protein translation in a mammalian
	target of rapamycin complex 1 (mTORC1)-independent manner and in parallel to the PI3K-Akt
	pathway. Mediates survival signaling through phosphorylation of BAD, which induces release o
	the anti-apoptotic protein Bcl-X(L)/BCL2L1. Promotes cell survival in response to a variety of
	proliferative signals via positive regulation of the I-kappa-B kinase/NF-kappa-B cascade, this
	process requires phosphorylation of MAP3K8/COT. Promotes growth factor-independent
	proliferation by phosphorylation of cell cycle factors such as CDKN1A and CDKN1B. Involved ir
	the positive regulation of chondrocyte survival and autophagy in the epiphyseal growth plate.
	{EC0:0000269 PubMed:12869584, EC0:0000269 PubMed:12954615,
	EC0:0000269 PubMed:15199164, EC0:0000269 PubMed:15548703,
	EC0:0000269 PubMed:15705789, EC0:0000269 PubMed:17476689,
	ECO:0000269 PubMed:18438430, ECO:0000269 PubMed:9294606}.
Molecular Weight:	40.1 kDa
UniProt:	Q62070
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
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Application Details	
	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