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## PAK1IP1 Protein (AA 1-392) (Strep Tag)



**Image** 



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#### Overview

Quantity:	1 mg
Target:	PAK1IP1
Protein Characteristics:	AA 1-392
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAK1IP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

Sequence:

MELVAGCYEQ VLFGFAVHPE PEACGDHEQW TLVADFTHHA HTASLSAVAV NSRFVVTGSK
DETIHIYDMK KKIEHGALVH HSGTITCLKF YGNRHLISGA EDGLICIWDA KKWECLKSIK
AHKGQVTFLS IHPSGKLALS VGTDKTLRTW NLVEGRSAFI KNIKQNAHIV EWSPRGEQYV
VIIQNKIDIY QLDTASISGT ITNEKRISSV KFLSESVLAV AGDEEVIRFF DCDSLVCLCE
FKAHENRVKD MFSFEIPEHH VIVSASSDGF IKMWKLKQDK KVPPSLLCEI NTNARLTCLG
VWLDKVADMK ESLPPAAEPS PVSKEQSKIG KKEPGDTVHK EEKRSKPNTK KRGLTGDSKK
ATKESGLIST KKRKMVEMLE KKRKKKKIKT MQ

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 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 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.
- 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.

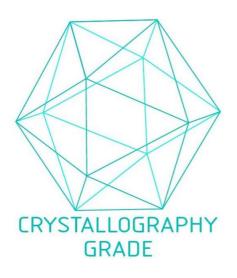
# **Product Details** >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade **Target Details** PAK1IP1 Target: Alternative Name: PAK1IP1 (PAK1IP1 Products) Background: P21-activated protein kinase-interacting protein 1 (PAK/PLC-interacting protein 1) (hPIP1) (PAK1-interacting protein 1) (WD repeat-containing protein 84), FUNCTION: Negatively regulates the PAK1 kinase. PAK1 is a member of the PAK kinase family, which has been shown to play a positive role in the regulation of signaling pathways involving MAPK8 and RELA. PAK1 exists as an inactive homodimer, which is activated by binding of small GTPases such as CDC42 to an Nterminal regulatory domain. PAK1IP1 also binds to the N-terminus of PAK1, and inhibits the specific activation of PAK1 by CDC42. May be involved in ribosomal large subunit assembly (PubMed:24120868). {ECO:0000269|PubMed:11371639, ECO:0000269|PubMed:24120868}. Molecular Weight: 44.0 kDa UniProt: **09NWT1** Pathways: Telomere Maintenance **Application Details** In addition to the applications listed above we expect the protein to work for functional studies Application Notes: 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

### **Application Details**

	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)
Images	



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process