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# Datasheet for ABIN3093548 PAFAH1B1 Protein (AA 1-410) (Strep Tag)





Overview

Quantity:	1 mg
Target:	PAFAH1B1
Protein Characteristics:	AA 1-410
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAFAH1B1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

# Product Details

Sequence:	MVLSQRQRDE LNRAIADYLR SNGYEEAYSV FKKEAELDVN EELDKKYAGL LEKKWTSVIR
	LQKKVMELES KLNEAKEEFT SGGPLGQKRD PKEWIPRPPE KYALSGHRSP VTRVIFHPVF
	SVMVSASEDA TIKVWDYETG DFERTLKGHT DSVQDISFDH SGKLLASCSA DMTIKLWDFQ
	GFECIRTMHG HDHNVSSVAI MPNGDHIVSA SRDKTIKMWE VQTGYCVKTF TGHREWVRMV
	RPNQDGTLIA SCSNDQTVRV WVVATKECKA ELREHEHVVE CISWAPESSY SSISEATGSE
	TKKSGKPGPF LLSGSRDKTI KMWDVSTGMC LMTLVGHDNW VRGVLFHSGG KFILSCADDK
	TLRVWDYKNK RCMKTLNAHE HFVTSLDFHK TAPYVVTGSV DQTVKVWECR
	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 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.

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Endotoxin Level: I Grade: C Target Details Target: F	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Crystallography grade PAFAH1B1 PAFAH1B1 (PAFAH1B1 Products) Platelet-activating factor acetylhydrolase IB subunit beta (Lissencephaly-1 protein) (LIS-1) (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH
Grade: G Target Details Target: F	Crystallography grade PAFAH1B1 PAFAH1B1 (PAFAH1B1 Products) Platelet-activating factor acetylhydrolase IB subunit beta (Lissencephaly-1 protein) (LIS-1) (PAF
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	Platelet-activating factor acetylhydrolase IB subunit beta (Lissencephaly-1 protein) (LIS-1) (PAF
Alternative Name:	
Background:	acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAFAH
6	
6	alpha),FUNCTION: Regulatory subunit (beta subunit) of the cytosolic type I platelet-activating
f	factor (PAF) acetylhydrolase (PAF-AH (I)), an enzyme that catalyzes the hydrolyze of the acetyl
(	group at the sn-2 position of PAF and its analogs and participates in PAF inactivation.
F	Regulates the PAF-AH (I) activity in a catalytic dimer composition-dependent manner (By
S	similarity). Required for proper activation of Rho GTPases and actin polymerization at the
I	leading edge of locomoting cerebellar neurons and postmigratory hippocampal neurons in
r	response to calcium influx triggered via NMDA receptors (By similarity). Positively regulates the
ć	activity of the minus-end directed microtubule motor protein dynein. May enhance dynein-
r	mediated microtubule sliding by targeting dynein to the microtubule plus end. Required for
S	several dynein- and microtubule-dependent processes such as the maintenance of Golgi
i	integrity, the peripheral transport of microtubule fragments and the coupling of the nucleus and
(	centrosome. Required during brain development for the proliferation of neuronal precursors
ć	and the migration of newly formed neurons from the ventricular/subventricular zone toward the
(	cortical plate. Neuronal migration involves a process called nucleokinesis, whereby migrating
(	cells extend an anterior process into which the nucleus subsequently translocates. During
r	nucleokinesis dynein at the nuclear surface may translocate the nucleus towards the

 ECO:0000269|PubMed:15173193, ECO:0000269|PubMed:22956769}.

 Molecular Weight:
 46.6 kDa

 UniProt:
 P43034

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centrosome by exerting force on centrosomal microtubules. May also play a role in other forms

of cell locomotion including the migration of fibroblasts during wound healing. Required for dynein recruitment to microtubule plus ends and BICD2-bound cargos (PubMed:22956769).

May modulate the Reelin pathway through interaction of the PAF-AH (I) catalytic dimer with VLDLR (By similarity). {EC0:0000250|UniProtKB:P43033, EC0:0000250|UniProtKB:P63005,

Target Details	
Pathways:	M Phase, Regulation of Cell Size
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: Handling	For Research Use only
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

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