

Datasheet for ABIN3085597

PATZ1 Protein (AA 1-687) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PATZ1 (ZNF278)
Protein Characteristics:	AA 1-687
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PATZ1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MERVNDASCG PSGCYTYQVS RHSTEMLHNL NQQRKNGGRF CDVLLRVGDE SFPRAHRAVLA</p> <p>ACSEYFESVF SAQLGDGGAA DGGPADVGGA TAAPGGGAGG SRELEMHTIS SKVFGDILDF</p> <p>AYTSRIVVRL ESFPELMTAA KFLLMRSVIE ICQEVIKQSN VQILVPPARA DIMLFRPPGT</p> <p>SDLGFPLDMT NGAALAANSN GIAGSMQPEE EAARAAGAAI AGQASLPVLP GVDRLPMVAG</p> <p>PLSPQLLTSP FPSVASSAPP LTGKRGRGRP RKANLLDSMF GSPGGLREAG ILPCGLCGKV</p> <p>FTDANRLRQH EAQHGVTSLQ LGYIDLPPPR LGENGLPISE DPDGPRKRSR TRKQVACEIC</p> <p>GKIFRDVYHL NRHKLSHSGE KPYPSCPVCGL RFKRKDRMSY HVRSHDGSVG KPYICQSCGK</p> <p>GFSRPDHLNG HIKQVHTSER PHKCQTCNAS FATRDRLRSH LACHEDKVPC QVCGKYLRAA</p> <p>YMADHLKKHS EGPSNFCISIC NRGFSSASYL KVHVKTTHGV PLPQVSRHQE PILNGGAAFH</p> <p>CARTYGNKEG QKCSHQDPIE SSDSYGDLSD ASDLKTPEKQ SANGSFSCDM AVPKNKMESD</p> <p>GEKKYPCPEC GSFFRSKSYL NKHIQKVHVR ALGGPLGDLG PALGSPFSPQ QNMSLLESFG</p>

FQIVQSAFAS SLVDPEVDQQ PMGPEGK

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 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®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: PATZ1 (ZNF278)

Alternative Name: PATZ1 ([ZNF278 Products](#))

Background: POZ-, AT hook-, and zinc finger-containing protein 1 (BTB/POZ domain zinc finger transcription factor) (Protein kinase A RI subunit alpha-associated protein) (Zinc finger and BTB domain-containing protein 19) (Zinc finger protein 278) (Zinc finger sarcoma gene protein),FUNCTION: Transcriptional regulator that plays a role in many biological processes such as embryogenesis, senescence, T-cell development or neurogenesis (PubMed:10713105, PubMed:25755280, PubMed:31875552). Interacts with the TP53 protein to control genes that are important in proliferation and in the DNA-damage response. Mechanistically, the interaction inhibits the DNA binding and transcriptional activity of TP53/p53 (PubMed:25755280). Part of the transcriptional network modulating regulatory T-cell development and controls the generation of the regulatory T-cell pool under homeostatic conditions (PubMed:31875552). {ECO:0000269|PubMed:10713105, ECO:0000269|PubMed:25755280, ECO:0000269|PubMed:31875552}., FUNCTION: (Microbial infection) Plays a positive role in viral cDNA synthesis. {ECO:0000269|PubMed:31060775}.

Molecular Weight: 74.1 kDa

UniProt: [Q9HBE1](#)

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.

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Application Details

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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