

Datasheet for ABIN3124637

**P4HTM Protein (AA 1-503) (Strep Tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	P4HTM
Protein Characteristics:	AA 1-503
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This P4HTM protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

## Product Details

Sequence: MAAAVATVQR PEAETVEEAS NLQWPLPEH RPSGAATRPG DSEDAPVRPL CKPRGICSRA  
YFLVLMVFVH LYLGNVLALL LFBHYSNGDE STDPGPQRRE QSPQPVPTLG PLTRLEGIKV  
GYERKVQVVA GRDHFIRTLS LKPLLFEIPG FLSDEECRLI IHLAQMKGLO RSQILPTEEY  
EEAMSAMQVS QLDFQLLDQ NHDGRLQLRE VLAQTRLGNG RWMTPENIQE MYSAIKADPD  
GDGVLSLQEF SNMDLRDFHK YMRSHKAESN ELVRNSHHTW LHQGEGAHHV MRAIRQRVLR  
LTRLSP EIVE FSEPLQVVRY GEGGHYHAHV DSGPVYPETI CSHTKLVANE SVPFETSCR Y  
MTVLFYLN NV TGGGETVFPV ADNRTYDEMS LIQDDVDLRD TRRHCDKGNL RVKPPQGTAV  
FWYNYLPDGQ GWVGEVDDYS LHGGCLVTRG TKWIANNWIN VDPSRARQAL FQEMARLAR  
EGGMDSQPEW ALDRAYS DAR VEL

**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.**

## Product Details

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### 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

### Purity:

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

## Target Details

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### Target:

P4HTM

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## Target Details

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Alternative Name: P4htm ([P4HTM Products](#))

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Background: Transmembrane prolyl 4-hydroxylase (P4H-TM) (EC 1.14.11.29) (Hypoxia-inducible factor prolyl hydroxylase 4) (HIF-PH4) (HIF-prolyl hydroxylase 4) (HPH-4),FUNCTION: Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF1A at 'Pro-402' and 'Pro-564'. May function as a cellular oxygen sensor and, under normoxic conditions, may target HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. {ECO:0000250|UniProtKB:Q9NXG6}.

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Molecular Weight: 57.0 kDa

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UniProt: [Q8BG58](#)

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## Application Details

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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.

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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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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)