

Datasheet for ABIN3136046

**PPP1R10 Protein (AA 1-888) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	PPP1R10
Protein Characteristics:	AA 1-888
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP1R10 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

## Product Details

Sequence:	MGSGPIDPKE LLKGLDSFLT RDGEVKSVDG ISKIFSLMKE ARKMVSRCTY LNIILQTRAP EVLVKFIDVG GYKLLNNWLT YSKTTNNIPL LQQILLTLQH LPLTVDHKQ NNTAKLVKQL SKSSEDEELR KLASVLVSDW MAVIRSQSST QPAEKDKKKR KEEGKSRTTL PERPLTEVKA ETRAEEAPEK KKEKPKSLRT TAPSHAKFRS TGLELDTPSL VPVKKNSSTV VVSDKYNLKP IPLKRQSATA APGDAAPPAE KKYKPLNTAP NTTKEIKVKI IPPQPM EGLG FLDALNSAPV PGIKIKKKKK VLSPTAAKPS PFEGKTSTEQ STAKPSSPEP APPAEPMDTD RPGTPVPPVE VPELMDAASS EPGALDAKPV DSPGDPNQLT RKGRKRKTVT WPEEGKLREY FYFELDETER VNVNLIKDFG EAAKREILSD RHAFETARRL SHDNMEEKVP WVCPRPLVLP SPLVIPGSNS QERYIQARE KGILQELFLN KESPHEPDPE PYEIPPKLI PLDEECAMDE TPYVETLEPG GSGGSPDGAG GSKLPPVLAN LMGSMGAGKS PQGPGGGGIN VQEILTSIMG SPNSHPSEEL LKQPDYSDKL KQMLVPHGLL GP GPVANGFP PGGPGGPKGM QHFPPGPGGP MPGP HGGPGG PVGPRLLGPP PPSRGGDPFW DGP GDPMRGG PMRGGPGPAP GPYHRGRGGR GGNEPPPPPP
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FRGARGGRSG GGPPNGRGGP GGGGMVGGGG HRPHEGPGGG MSGGHRSHDG PGGNMSGGHR  
SHDGPGGNMG GSGGHRSEHG PGHGGPHGHR PHDVPSHRGH DHRGPPPEH RGHDGHGGGG  
HRGHDGGHSH GGDMSNRPVC RHFMMKGNCR YENNCIFYHP GVNGPPLP

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ppp1r10 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. 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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### Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Sterility:

0.22 µm filtered

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## Product Details

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

## Target Details

Target: PPP1R10

Alternative Name: Ppp1r10 ([PPP1R10 Products](#))

Background: Scaffold protein which mediates the formation of the PTW/PP1 phosphatase complex by providing a binding platform to each component of the complex. The PTW/PP1 phosphatase complex plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Mediates interaction of WDR82 and PPP1CA. Inhibitor of PPP1CA and PPP1CC phosphatase activities. Has inhibitory activity on PPP1CA only when phosphorylated. Binds to mRNA, single-stranded DNA (ssDNA), poly(A) and poly(G) homopolymers. {ECO:0000269|PubMed:20516061}.

Molecular Weight: 95.3 kDa Including tag.

UniProt: [Q80W00](#)

Pathways: [Protein targeting to Nucleus](#)

## 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: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

## Handling

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Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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