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Datasheet for ABIN7126029  
**P4HB Protein (full length) (rho-1D4 tag)**

### Overview

Quantity:	0.5 mg
Target:	P4HB
Protein Characteristics:	full length
Origin:	CHO cells
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This P4HB protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys), Functional Studies (Func)

### Product Details

Sequence: MRFSC LALLP G VALLASAR LAAASDVLEL TDENFESRVS DTGSAGLMLV EFFAPWCGHC  
KRLAPEYEEA ATRLKGIVPL TKVDCTANTN TCNKYGVSGY PTLKIFRDGE EAGAYDGPRT  
ADGIVSHLKK QAGPASVLLR SEEEFKKFIS DKDASVVGFF RDLFSDGHSE FLKAASNLRD  
NYRFAHTNVE SLVKEYDDNG EGITLFRPSH LANKFEDKTV VYTEQKMTSG KIKRFIQESI  
FGICPHMTED NKDLIQSKDL LTAYYDVDYE KNAKGSNYWR NRVMMVAKKF LDAGHKLNFA  
VASRKTFSHE LSDFGLESTT GEVPVVAIRT AKGEKFVMQE EFSRDGKALE RFLQDYFDGN  
LKRYLKSEPI PETNDGPVKV VVAENFDDIV NNEDKDV LIE FYAPWCGHCK NLEPKYKELG  
EKLSKDPNIV IAKMDATAND VPSPYEVKGF PTIYFSPANK KLNPKKYEGG RELNDFINYL  
QREATTPPII QEEKPKKKKK AQEDL

**Sequence without tag. The location of the tag depends on protein. You may also submit your preference when ordering.**

## Product Details

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- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - CHO Protein disulfide-isomerase 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 custom-made protein and will be made for the first time for your order. This protein will be produced on the basis of on a Custom Service Project. We will make sure that every step in the production is successful from the design of the expression plasmid to the expression and purification of the final protein. Our experts in the lab will ensure that you receive a correctly folded protein.

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.

- Purification:
- Three step purification of proteins expressed in baculovirus infected SF9 insect cells:
1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
  2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
  3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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

Sterility: 0.22 µm filtered

Endotoxin Level: Endotoxins have not been removed. Please contact us if you require an endotoxin-free version of this product.

Grade: Crystallography grade

Biological Activity Comment: Protein has not been tested for activity yet.

## Target Details

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Target: P4HB

Alternative Name: Protein disulfide-isomerase ([P4HB Products](#))

UniProt: [Q91Z81](#)

## Target Details

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Pathways: [Maintenance of Protein Location](#), [Cell RedoxHomeostasis](#), [Lipid Metabolism](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: 150 mM NaCl, 20 mM NaH<sub>2</sub>PO<sub>4</sub> pH 7.4, 10 % glycerol. Note: Isoelectric point of protein taken into account regarding pH .

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)