

# Recombinant human PP1 subunit R4/PPP1R3B protein

Catalog Number: ATGP2330

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-285aa

**UniProt No.**

Q86XI6

**NCBI Accession No.**

NP\_001188258

**Alternative Names**

Protein phosphatase 1 regulatory subunit 3B, Hepatic glycogen-targeting protein phosphatase 1 regulatory subunit GL, Protein phosphatase 1 regulatory subunit 4, PP1 subunit R4, Protein phosphatase 1 subunit GL, PTG, PPP1R4 GL, hepatic glycogen-targeting subunit G/L

## PRODUCT SPECIFICATION

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**Molecular Weight**

35.1 kDa (308aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

PPP1R3B is the catalytic subunit of the serine/threonine phosphatase, protein phosphatase-1. The protein is expressed in liver and skeletal muscle tissue and may be involved in regulating glycogen synthesis in these tissues. This gene may be involved in type 2 diabetes and maturity-onset diabetes of the young. Alternate splicing results in multiple transcript variants that encode the same protein. Recombinant human PPP1R3B

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protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMMAVDIE YRYNCMAPSL RQERFAFKIS PKPSKPLRPC IQLSSKNEAS GMVAPAVQEK  
KVKKRVSFAD NQGLALTMVK VFSEFDDPLD MPFNITELLN NIVSLTTAES ESFVLDFSQP SADYLDFRNR LQADHVCLN  
CVLKDKAIAG TVKVQNLAFE KTVKIRMTFD TWKSYTDFPC QYVKDITYAGS DRDTFSFDIS LPEKIQSYER MEFAVYYECN  
GQTYWDSNRG KNYRIIRAEL KSTQGMTKPH SGPDLGISFD QFGSPRCSYG LFPEWPSYLG YEKLGPHY

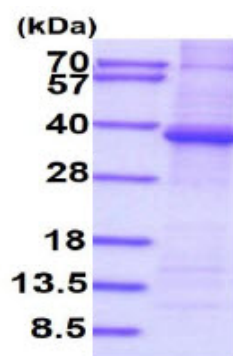
## General References

Munro S., et al. (2005) Diabetes. 51:591-598

Ota T., et al. (2004) Nat. Genet. 36:40-45

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.