

# Recombinant human Prohibitin protein

Catalog Number: ATGP1987

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-272aa

**UniProt No.**

P35232

**NCBI Accession No.**

NP\_002625.1

**Alternative Names**

Prohibitin, PHB1

## PRODUCT SPECIFICATION

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**Molecular Weight**

31.9 kDa (292aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**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**

PHB is an evolutionarily conserved gene that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation and may be a tumor suppressor. Mutations in PHB have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3' untranslated region. The longer transcript is present at higher levels in proliferating tissues and cells, suggesting that this longer 3' untranslated region may function as a trans-acting regulatory RNA. Recombinant human PHB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MAAKVFESIG KFGALAVAG GVNNSALYNV DAGHRAVIFD RFRGVQDIVV  
GEGTHFLIPW VQKPIIFDCR SRPRNVPVIT GSKDLQNVNI TLRILFRPVA SQLPRIFTSI GEDYDERVLP SITTEILKSV  
VARFDAGELI TQRELVSRQV SDDLTERAAT FGLILDDVSL THLTFGKEFT EAVEAKQVAQ QEAERARFVV EKAEQKKAA  
IISAEGDSKA AELIANSLAT AGDGLIELRK LEAAEDIAYQ LSRSRNITYL PAGQSVLLQL PQ

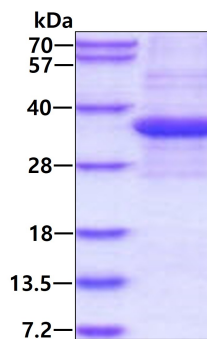
## General References

Van Aken O. et al. (2007) Plant J. 52:850-864.

Mishra S. et al. (2006) J Cell Mol Med. 10:353-363.

## DATA

### SDS-PAGE



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