

Recombinant human Prohibitin protein

Catalog Number: ATGP1987

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-272aa

UniProt No.

P35232

NCBI Accession No.

NP_002625.1

Alternative Names

Prohibitin, PHB1

PRODUCT SPECIFICATION

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

> 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

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 GVVNSALYNV DAGHRAVIFD RFRGVQDIVV
GEGTHFLIPW VQKPIIFDCR SRPRNVPVIT GSKDLQNVNI TLRILFRPVA SQLPRIFTSI GEDYDERVLP SITTEILKSV
VARFDAGELI TQRELVSQV SDDLTERAAT FGLILDDVSL THLTFGKEFT EAVEAKQVAQ QEAERARFVV EKAEQKKAA
IISAEGDSKA AELIANSLAT AGDGLIELRK LEAAEDIAAYQ LSRSRNITYL PAGQSVLLQL PQ

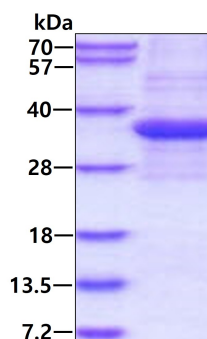
General References

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.