

# Recombinant human PBLD protein

Catalog Number: ATGP0790

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-288aa

### UniProt No.

P30039

### NCBI Accession No.

NP\_071412

### Alternative Names

Phenazine biosynthesis-like domain-containing protein, FLJ14767, MAWBP, MAWDBP.

## PRODUCT SPECIFICATION

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### Molecular Weight

33.9 kDa (308aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

### Purity

> 95% 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

PBLD, also known as MAWBP, is a phenazine biosynthesis-like protein (PhzF) family. Expressed in most tissues, PBLD is the only representative of the PhzF family in the human genome. It is participate in the MAPK signaling pathway. Involved in multiple basic cellular functions, expression of PBLD is elevated in several disease processes, including Insulin resistance, folate deficiency and hypotension. Recombinant human PBLD 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

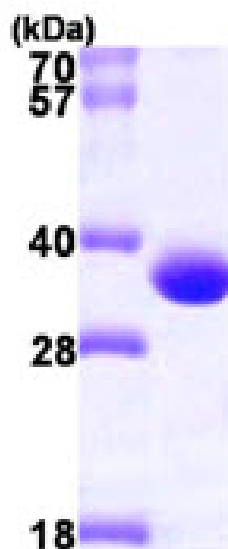
MGSSHHHHHH SSGLVPRGSH MKLPIFIADA FTARAFRGNP AAVCLLENEL DEDMHQKIAR EMNLSETAFI RKLHPTDNFA  
QSSCFGLRWF TPASEVPLCG HATLASAAVL FHKIKNMNST LTFVTLSEGL RARRAEDGIV LDLPLYPAHP QDFHEVEDLI  
KTAIGNTLVQ DICYSPDTQK LLVRLSDVYN RSFLENLKVN TENLLQVENT GKVKGLLTL KGEPGGQTQA FDFYSRYFAP  
WVGVAEDPVT GSAHAVLSSY WSQHLGKKEM HAFQCSTRGG ELGISLRPDG RVDIRGGAHV VLEGLTA

### General References

Mavrodi DV., et al. (2004) Acta Crystallogr D Biol Crystallogr. 60(1):184-6.  
Parsons JF., et al. (2004) Biochemistry. 43(39):12427-35.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)