

# Recombinant human PCBP1 protein

Catalog Number: ATGP2314

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-163aa

**UniProt No.**

Q15365

**NCBI Accession No.**

NP\_006187.2

**Alternative Names**

Poly(rC) binding protein 1, Poly(rC) binding protein 1, hnRNP-E1, hnRNP-X, HNRPE1, HNRPX

## PRODUCT SPECIFICATION

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**Molecular Weight**

19.6 kDa (186aa) confirmed by MALDI-TOF

**Concentration**

0.25mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

**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**

PCBP1 appears to be multifunctional. It along with PCBP-2 and hnRNPK corresponds to the major cellular poly (rC) -binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This protein together with PCBP-2 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promotes poliovirus RNA replication by binding to its 5'-terminal cloverleaf structure. It has also been implicated in translational control of the 15-lipoxygenase mRNA, human Papillomavirus type 16 L2 mRNA, and hepatitis A virus RNA. PCBP1 is also suggested to play a part in

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formation of a sequence-specific alpha-globin mRNP complex which is associated with alpha-globin mRNA stability. Recombinant human PCBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MDAGVTE SGLNVTLTIR LLMHGKEVGS IIGKKGESVK RIREESGARI NISEGNCPER  
IITLTGPTNA IFKAFAMIID KLEEDINSSM TNSTAASRPP VTLRLVVPAT QCGSLIGKGG CKIKEIREST GAQVQVAGDM  
LPNSTERAIT IAGVPQSVTE CVKQIC

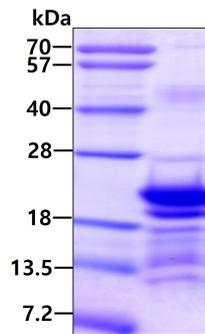
## General References

Beausoleil S.A., et al. (2006) Nat. Biotechnol. 24:1285-1292

Yu L.-R., et al. (2007) J. Proteome Res. 6:4150-4162

## DATA

### SDS-PAGE



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