

Product information



PCBP1, 1-163aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2314

Full name: Poly(rC) binding protein 1

NCBI Accession No.: NP_006187

Synonyms: hnRNP-E1, hnRNP-X, HNRPE1, HNRPX

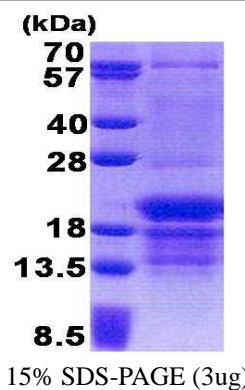
Description: PCBP1 appears to be multifunctional. It along with PCBP-2 and hnRNPK corresponds to the major cellular poly(rC)-binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This protein together with PCBP-2 also functions as translational coactivators 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 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.

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

Molecular Weight: 19.6 kDa (186aa) confirmed by MALDI-TOF

Purity: > 85% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMDAGVTE 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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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