

Recombinant human PAIP2 protein

Catalog Number: ATGP0416

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-127aa

UniProt No.

Q9BPZ3

NCBI Accession No.

NP_057564

Alternative Names

Poly(A)-binding protein-interacting protein 2, PAIP2A, PABP- interacting protein 2, HSPC218, Poly(A)-binding protein-interacting protein 2 poly(A) binding protein interacting protein 2.

PRODUCT SPECIFICATION

Molecular Weight

17.1 kDa (147aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 90% 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

PAIP2, also known as Poly (A) -binding protein-interacting protein 2, acts as a repressor in the regulation of translation initiation of poly (A) -containing mRNAs. Its inhibitory activity on translation is mediated via its action on PABPC1. It displaces the interaction of PABPC1 with poly (A) RNA and competes with PAIP1 for binding to PABPC1. Its association with PABPC1 results in disruption of the cytoplasmic poly (A) RNP structure organization. Recombinant PAIP2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MKDPSRSSTS PSIINEDVII NGHSHEDDNP FAEYMWMENE EEFNRQIEEE
LWEEEFIERC FQEMLEEEEE HEWFIPARDL PQTMDQIQDQ FNDLVISDGS SLEDLVVKS NLPNAKEFVP GVKYGN I

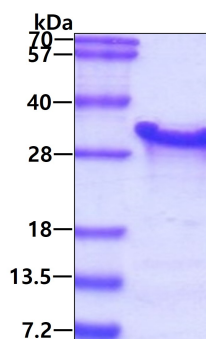
General References

Siddiqui N., et al. (2007) J Biol Chem. 282(34):25067-75.

Yoshida M., et al. (2006) EMBO J. 25(9):1934-44.

DATA

SDS-PAGE



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