

Recombinant human 4E-BP1/EIF4EBP1 protein

Catalog Number: ATGP0379

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-118aa

UniProt No.

Q13541

NCBI Accession No.

NP_004086

Alternative Names

Phosphorylated heat- and acid-stable protein regulated by insulin 1, PHAS-I, MGC4316, Eukaryotic translation initiation factor 4E binding protein 1, EIF4EBP1, EIF4E-binding protein 1, BP-1, 4EBP1

PRODUCT SPECIFICATION

Molecular Weight

14.7 kDa (138aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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

Description

eIF4E-BP1, also known as eukaryotic translation initiation factor 4E-binding protein 1, is a member of a family of translation repressor proteins. This protein regulates eukaryotic translation initiation factor 4E (eIF4E) activity by preventing its assembly into the eIF4F complex and mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways. Recombinant EIF4EBP1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSGGSSCSQT PSRAIPATRR VVLGDGVQLP PGDYSTTPGG TLFSTTPGGT
RIIYDRKFLM ECRNSPVTKT PPRDLPTIPG VTSPSSDEPP MEASQSHLRN SPEDKRAGGE ESQFEMDI

General References

Pause A., et al. (1994) Nature. 371:762-767.

Olsen JV., et al. (2006) Cell. 127(3):635-48.

DATA

SDS-PAGE

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

