

Recombinant human eIF-4E/EIF4E protein

Catalog Number: ATGP0663

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-217aa

UniProt No.

P06730

NCBI Accession No.

NP_001959.1

Alternative Names

Eukaryotic translation initiation factor 4E, CBP, EIF4E1, EIF4EL1, EIF4F, Eukaryotic translation initiation factor 4E, eIF-4F 25 kDa subunit, mRNA cap-binding protein

PRODUCT SPECIFICATION

Molecular Weight

27.2 kDa (237aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 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

Description

EIF4E, a member of eukaryotic initiation factor 4 families, modulates translation of maternal mRNAs in early embryos before the onset of zygotic transcription. This protein recognizes and binds to the 7 methyl GTP cap structure of eukaryotic mRNAs, thereby mediating the initiation of translation. It facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. Recombinant human EIF4E protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MATVEPETTP TPNPPTTEEE KTESNQEVAN PEHYIKHPLQ NRWALWFFKN
DKSKTWQANL RLISKFDTVE DFWALYNHIQ LSSNLMPGCD YSLFKDGIEP MWEDEKNKRG GRWLITLNKQ QRRSDLDRFW
LETLCLIGE SFDDYSDDVC GAVVNVRAKG DKIAIWTTEC ENREAVTHIG RVYKERLGLP PKIVIGYQSH ADTATKSGST
TKNRFVV

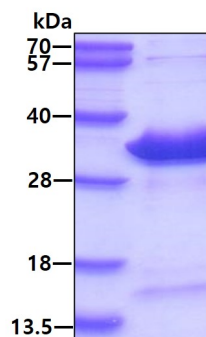
General References

Bendahmane A., et al. (2010) PLoS One. 5(6):e11313.

Pelletier J., et al. (2010) J Gen Virol. 91(Pt 5):1224-8.

DATA

SDS-PAGE



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