

EIF4E, 1-217aa, Human, His tag, E.coli

Cat.NO.: TP01999

3th Edition

Synonyms:Eukaryotic translation initiation factor 4E, CBP, EIF4E1, EIF4EL1, EIF4F

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.

Form:Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol, 1mM DTT

Molecular Weight:27.2 kDa(237aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFFKNDKSK
TWQANLRLISKFDTVEDFWALYNHIQLSSNLMPGCDYSLFKDGIPEPMWEDEKNKRGGRWLITLNKQQRSDLDRF
WLETLLCLIGESFDDYSDDVCGAVVNVRAKGDKIAIWTTECENREAVTHIGRVYKERLGLPPKIVIGYQSHADTATKS
GSTTKNRFVV

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.