

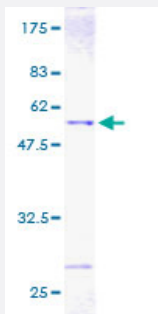
Full-Length

EIF4E (Human) Recombinant Protein (P01)

Catalog # H00001977-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human EIF4E full-length ORF (AAH12611, 1 a.a. - 217 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYKHPLQNRWALWFFKNDKSKTWQANLRLISK
FDTVEDFWALYNHIQLSSNLMPGCDYSLFKDGEPMWEDEKKNRGGRWLITLNKQRRSDLNRF
WLETLLCLIGESFDDYSDDVCGAVVNVRAKGDKIAWTTECENREAVTHIGRVYKERLGLPPKIVIG
YQSHADTATKSGSTTKNRFVV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

49.61

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — EIF4E

Entrez GeneID [1977](#)

GeneBank Accession# [BC012611](#)

Protein Accession# [AAH12611](#)

Gene Name EIF4E

Gene Alias CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573

Gene Description eukaryotic translation initiation factor 4E

Omim ID [133440](#)

Gene Ontology [Hyperlink](#)

Gene Summary

All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine cap structure, m7GpppX (where X is any nucleotide). This structure is involved in several cellular processes including enhanced translational efficiency, splicing, mRNA stability, and RNA nuclear export. EIF4E is a eukaryotic translation initiation factor involved in directing ribosomes to the cap structure of mRNAs. It is a 24-kD polypeptide that exists as both a free form and as part of a multiprotein complex termed EIF4F. The EIF4E polypeptide is the rate-limiting component of the eukaryotic translation apparatus and is involved in the mRNA-ribosome binding step of eukaryotic protein synthesis. The other subunits of EIF4F are a 50-kD polypeptide, termed EIF4A (see MIM 601102), that possesses ATPase and RNA helicase activities, and a 220-kD polypeptide, EIF4G (MIM 600495) (Rychlik et al., 1987 [PubMed 3469651]).[supplied by OMIM]

Other Designations eIF-4F 25 kDa subunit|eukaryotic translation initiation factor 4E-like 1|mRNA cap-binding protein

Publication Reference

- [Heat shock protein 27 confers resistance to androgen ablation and chemotherapy in prostate cancer cells through eIF4E.](#)

Andrieu C, Taieb D, Baylot V, Ettinger S, Soubeyran P, De-Thonel A, Nelson C, Garrido C, So A, Fazli L, Bladou F, Gleave M, Iovanna JL, Rocchi P.

Oncogene 2010 Apr; 29(13):1883.

Application: PI, WB-Re, Recombinant proteins

Pathway

- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)

Disease

- [Tobacco Use Disorder](#)