

Recombinant Human EIF4E, His-tagged

Cat. No. EIF4E-2775H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EIF4E protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 27.2 kDa(237aa).
Species	Human
Source	E.coli
Protein Length	1-217 aa
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.
Form	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol.
Purity	> 85% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MATVEPETTP TPNPPTTEEE KTESNQEVAN PEH YIKHPLQ NRWALWFFKN DKSKTWQANL RLISKFDTVEDFWALYNHIQ LSSN LM PG CD YSLFKDGI EP MWEDEKNKRG GRWLITLNKQ QRRSDLDRFW LET LL CLIGE SFDDYSDDVC GAVNVNRAKG DKIAIWTTEC ENREAVTHIG RVYKERLGLP

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PKIVIGYQSH ADTATKSGST TKNRFVV.

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.

GENE INFORMATION
Gene Name

EIF4E eukaryotic translation initiation factor 4E [Homo sapiens]

Synonyms

eukaryotic translation initiation factor 4E; CBP; EIF4F; EIF4E1; EIF4EL1; MGC111573; EIF4E; eIF-4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; eukaryotic translation initiation factor 4E-like 1; eIF4E

Gene ID

1977

mRNA Refseq

NM_001130678

Protein Refseq

NP_001124150

MIM

133440

UniProt ID

P06730

Chromosome Location

4q21-q25

Pathway

Insulin signaling pathway; mTOR signaling pathway; Gene Expression; Metabolism of RNA; Metabolism of proteins; Signaling by Insulin receptor

Function

translation initiation factor activity; protein binding; RNA cap binding

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