

Eif4e, 1-217aa, Mouse, His-tag, E.coli

Cat.NO.: TP02000

3th Edition

Synonyms:Eukaryotic translation initiation factor 4E, EG668879, eIF-4E, Eif4e-ps, If4e

Description:Eif4e, also known as Eukaryotic translation initiation factor 4E, 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 mouse 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 (pH8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl, 0.1mM PMSF

Molecular Weight:27.6kDa (241aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSHMATVEPETTPPTNPPPAEEEEKTESNQEVANPEHYIKHPLQNRWALWFFKN
DKSKTWQANLRLISKFDTVEDFWALYNHIQLSSNLMPGCDYSLFKDGIEMWEDEKNKRGGRWLITLNKQQRRSD
LDRFWLETLLCLIGESFDDYSDDVCGAVVNVRAKGDKIAIWTTECENRDAVTHIGRVYKERLGLPPKIVIGYQSHADT
ATKSGSTTKNRFVV

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Absorbance at 280nm)

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.