

Recombinant mouse eIF-4E/EIF4E protein

Catalog Number: ATGP3550

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-217aa

UniProt No.

P63073

NCBI Accession No.

NP_031943.3

Alternative Names

Eukaryotic translation initiation factor 4E, EG668879, eIF-4E, Eif4e-ps, If4e, eIF-4F 25 kDa subunit

PRODUCT SPECIFICATION

Molecular Weight

27.6 kDa (241aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl, 0.1mM PMSF

Purity

> 95% 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, 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.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MATVEP ETTPTTNPPP AEEKTESNQ EVANPEHYIK HPLQNRWALW
FFKNDKSKTW QANLRLISKF DTVEDFWALY NHIQLSSNLM PGCDYSLFKD GIEPMWEDEK NKRGGRWLIT LNKQQRSDI
DRFWLETLLC LIGESFDDYS DDVCGAVNVV RAKGDKIAIW TTECENRDAV THIGRVYKER LGLPPKIVIG YQSHADTATK
SGSTTKNRFV V

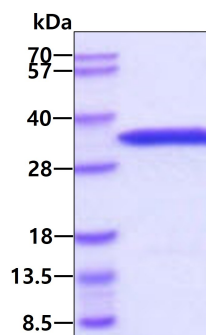
General References

Piron F., et al. (2010) PLoS One. 5(6):e11313.

Cao R., et al. (2015) Nat neurosci. 18(6):855-62.

DATA

SDS-PAGE



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