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## Product Data Sheet

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Product Name: EIF4E Mouse  
 Cat. No.: GP23386  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	eIF-4E; eIF4E; mRNA cap-binding protein; eIF-4F 25 kDa subunit; Eif4e.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHEMATVEP ETTPTTNPPP AEEKTESNQ EVANPEHYIK HPLQNRWALW FFKNDKSKTW QANLRLISKF DTVEDFWALY NHIQLSSNLM PGCDYSLFKD GIEPMWEDEK NKRGGRWLIT LNKQQRSDL DRFWLETLLC LIGESFDDYS DDVCGAVNV RAKGDKIAIW TTECENRDAV THIGRVYKER LGLPPKIVIG YQSHADTATK SGSTTKNRFV V		
Formulation	EIF4E protein solution (1mg/ml) 20mM Tris-HCl Buffer (pH8.0), 10% glycerol, 1mM DTT, 0.1M NaCl and 0.1mM PMSF.		

### Introduction

EIF4E is part of the eukaryotic initiation factor 4 families, controls translation of maternal mRNAs in early embryos before the onset of zygotic transcription. EIF4E identifies and binds to the 7 methyl GTP cap structure of eukaryotic mRNAs, thus modulates the initiation of translation. EIF4E enables ribosome binding by inducing the unwinding of the mRNAs secondary structures.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

EIF4E Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 241 amino acids (1-217 a.a) and having a molecular mass of 27.6kDa. EIF4E is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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