# Recombinant human eIF-3 epsilon/EIF3F protein

Catalog Number: ATGP2357

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-357aa

**UniProt No.**
O00303

**NCBI Accession No.**
NP_003745

**Alternative Names**
Eukaryotic translation initiation factor 3 subunit F, EIF3S5, Eukaryotic translation initiation factor 3 subunit 5 epsilon 47kDa, eIF3-p47, Deubiquitinating enzyme eIF3f

## PRODUCT SPECIFICATION

**Molecular Weight**
40kDa (380aa)

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE, Denatured

**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**
EIF3F is a component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF 2:GTP:methionyl-tRNAi and eIF-5 to form the 43S preinitiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AuG recognition. The eIF-3 complex is also required for disassembly and recycling of post termination

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ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Recombinant human EIF3F protein, fused to His-tag at N-terminus, was expressed in E. coli.

### Amino acid Sequence

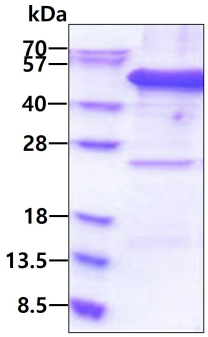
<MGSSHHHHHH SSGLVPRGSH MGS>MATPAVP VSAPPATPTP VPAAAPASVP APTPAPAAAP VPAAAPASSS DPAAAAAATA APGQTPASAQ APAQTPAPAL PGPALPGPFP GGRVVRLHPV ILASIVDSYE RRNEGAARVI GTLLGTVDKH SVEVTNCFSV PHNESEDEVA VDMEFAKNMY ELHKKVSPNE LILGWYATGH DITEHSVLIH EYYSREAPNP IHLTVDTSLQ NGRMSIKAYV STLMGVPGRT MGVMFTPLTV KYAYYDTERI GVDLIMKTCF SPNRVIGLSS DLQQVGGASA RIQDALSTVL QYAEDVLSGK VSADNTVGRF LMSLVNQVPK IVPDDFETML NSNINDLLMV TYLANLTQSQ IALNEKLVNL

### General References

Gaitanou M., et al (2001). Biochem. J. 355:715-724

## DATA

### SDS-PAGE




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