

# Recombinant human AIMP3/EEF1E1 protein

Catalog Number: ATGP1022

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-174aa

### UniProt No.

O43324

### NCBI Accession No.

NP\_004271

### Alternative Names

Eukaryotic translation elongation factor 1 epsilon-1, AIMP3, P18, Aminoacyl tRNA synthetase complex-interacting multifunctional protein 3, Multisynthetase complex auxiliary component p18, Elongation factor p18

## PRODUCT SPECIFICATION

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### Molecular Weight

21.9 kDa (194aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### 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

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### Description

EEF1E1, also known as, eukaryotic translation elongation factor 1 epsilon-1, shares sequence similarity with the amino-terminal ends of the Beta and Gamma subunits of EF-1. By specifically interacting with MetRS, this protein binds to a macromolecular tRNA synthetase complex that catalyzes the ligation of specific amino acids to their cognate tRNAs. Upon DNA damage, it translocates to the nucleus where it interacts with ATM and ATR, resulting in p53 activation. Recombinant human EEF1E1 protein, fused to His-tag at N-terminus, was expressed in E. coli

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and purified by using conventional chromatography.

## Amino acid Sequence

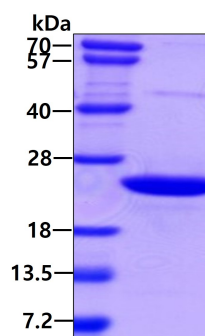
<MGSSHHHHHH SSGLVPRGSH> MAAAELSLL EKSLGLSKGN KYSAQGERQI PVLQTNNGPS LTGLTTIAAH  
LVKQANKEYL LGSTAEKAI VQQWLEYRVT QVDGHSSKND IHTLLKDLNS YLEDKVYLTG YNFTLADILL YYGLHRFIVD  
LTVQEKEYL NVSRWFCHIQ HYPGIRQHLS SVVFIKNRLY TNSH

## General References

Quevillon S. et al. (1996) FEBS Lett. 395: 63-67.  
Norcum MT. et al. (1991) J Biol Chem. 266:15398-405

## DATA

### SDS-PAGE



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