

# Recombinant human EF-1 gamma/EEF1G protein

Catalog Number: ATGP2763

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-437aa

### UniProt No.

P26641

### NCBI Accession No.

NP\_001395

### Alternative Names

Elongation factor 1-gamma, EF1G, GIG35, EF-1-gamma, Elongation factor 1 gamma, GIG35, PRO1608

## PRODUCT SPECIFICATION

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### Molecular Weight

52.5 kDa (460aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% 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

Elongation factor 1-gamma, also known as EEF1G, is a multi-protein complex that is responsible for the delivery of aminoacyl-tRNAs to the ribosome. This subunit contains an N-terminal glutathione transferase domain, which may be involved in regulating the assembly of multisubunit complexes containing this elongation factor and aminoacyl-tRNA synthetases. Increased expression of EEF1G is associated with pancreatic cancer, suggesting a possible role for EEF1G in the oncogenic transformation process. Recombinant human EEF1G protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMAAGTLY TYPENWRAFK ALIAAQYSGA QVRVLSAPPH FHFGQTNRTP EFLRKFPAGK  
VPAFEGDDGF CVFESNAIAY YVSNEELRGS TPEAAAQVVQ WVSFADSDIV PPASTWVFPT LGIMHHNKQA TENAKEEVRR  
ILGLLDAYLK TRTFLVGERV TLADITVVCT LLWLYKQVLE PSFRQAFNPT NRWFLTCINQ PQFRAVLGEV KLCEKMAQFD  
AKKFAETQPK KDTPRKEKGS REEKQKPQAE RKEEKKAAAP APEEEMDECE QALAAEPKAK DPFAHLPKST FVLDEFKRKY  
SNEDTSLVAL PYFWEHFDKD GWSLWYSEYR FPEELTQTFM SCNLITGMFQ RLDKLRKNAF ASVILFGTNN SSSISGVWVF  
RGQELAFPLS PDWQVDYESY TWRKLDPGSE ETQTLVREYF SWEGAFQHVG KAFNQGKIFK

## General References

Sanders J., et al. (1992) Nucleic Acids Res. 20: 5907-5910.  
Koonin E V., et al. (1994) Protein Sci. 3: 2045-2054.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)