

# Recombinant human eEF-2K/EEF2K protein

Catalog Number: ATGP2837

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-725aa

### UniProt No.

O00418

### NCBI Accession No.

NP\_037434.1

### Alternative Names

Eukaryotic translation initiation factor 3 subunit F, EIF3S5, eEF-2 kinase, CaMKIII, Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase

## PRODUCT SPECIFICATION

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### Molecular Weight

84.6 kDa (748aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) 10% glycerol

### Purity

> 85% 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

Eukaryotic elongation factor-2 kinase, also known as EEF2K, is threonine kinase that regulates protein synthesis by controlling the rate of peptide chain elongation. upon activation by a variety of upstream kinases including AMPK or TRPM7, phosphorylates the elongation factor EEF2 at a single site, renders it unable to bind ribosomes and thus inactive. Recombinant human EEF2K 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

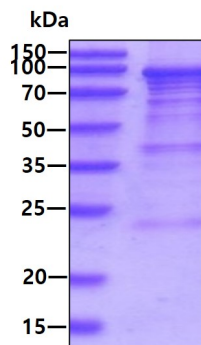
<MGSSHHHHHH SSGLVPRGSH MGS>MADEDLI FRLEGVDGGQ SPRAGHDGDS DGDSDEEGY FICPITDDPS  
SNQNVNSKVN KYYSNLTKSE RYSSSGSPAN SFHFKEAWKH AIQKAKHMPD PWAEFHLEDI ATERATRHRV NAVTGEWLDD  
EVLIKMASQP FGRGAMRECF RTKKLSNFLH AQQWKGASNY VAKRYIEPVD RDVYFEDVRL QMEAKLWGEE YNRHKPPKQV  
DIMQMCIIEL KDRPGKPLFH LEHYIEGKYI KYNSNSGFVR DDNIRLTPQA FSHFTFERSG HQLIVVDIQG VGDLYTDPQI  
HTETGTDFGD GNLGVRGMAL FFYSHACNRI CSMGLAPFD LSPRERDAVN QNTKLLQSAK TILRGTEECG GSPRVRTLSE  
SRPPLLRLPS ENSGDENMSD VTFDSLPSPP SSATPHSQKL DHLHWPVFSV LDNMAVRDHD HLDNHRESEN SGDSGYPSEK  
RGELDDPEPR EHGHSYSNRK YESDEDSLGS SGRVCVEKWN LLNSSRLHLP RASAVALEVQ RLNALDLEKK IGKSILGKVH  
LAMVRYHEGG RFCEKGEEWD QESAVFHLEH AANLGELEAI VGLGLMYSQL PHHILADVSL KETEENKTKG FDYLLKAAEA  
GDRQSMILVA RAFDSGQNLN PDRCQDWLEA LHWYNTALEM TDCDEGGEYD GMQDEPRYMM LAREAEMLFT  
GGYGLEKDPQ RSGDLYTQAA EAAMEAMKGR LANQYYQKAE EAWAQMEE

## General References

Ryazanov A.G., et al. (1997) Proc. Natl. Acad. Sci. u.S.A. 94:4884-4889  
Knebel A., et al. (2001) EMBO J. 20:4360-4369

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.