# Recombinant human EF-1 alpha1/EEF1A1 protein

Catalog Number: ATGP2613

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-462aa

**UniProt No.**
P68104

**NCBI Accession No.**
NP_001393.1

**Alternative Names**
Eukaryotic translation elongation factor 1 alpha 1, Leukocyte receptor cluster (LRC) member 7, Elongation factor 1-alpha 1, EF-1-alpha-1, Elongation factor Tu, EF-Tu, Eukaryotic elongation factor 1 A-1, eEF1A-1, EEF1A, EF1A, LENG7, EE1A1, EF1A1, EF1alpha1

## PRODUCT SPECIFICATION

**Molecular Weight**
50.1 kDa (462aa)

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

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

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

**Tag**
Non-Tagged

**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**
EEF1A1 is an isoform of the alpha subunit of the elongation factor-1 complex, which is responsible for the enzymatic delivery of aminoacyl tRNAs to the ribosome. This isoform (alpha 1) is expressed in brain, placenta, lung, liver, kidney, and pancreas, and the other isoform (alpha 2) is expressed in brain, heart and skeletal muscle. This isoform is identified as an autoantigen in 66% of patients with Felty syndrome. This gene has been

found to have multiple copies on many chromosomes, some of which, if not all, represent different pseudogenes. Recombinant human EEF1A1 protein is expressed in E. coli.

**Amino acid Sequence**

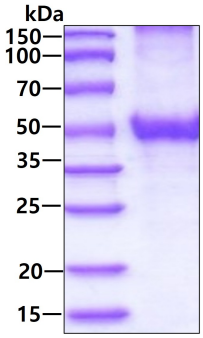
MGKEKTHINI VVIGHVDSGK STTTGHLIYK CGGIDKRTIE KFEKEAAEMG KGSFKYAWVL DKLKAERERG ITIDISLWKF ETSKYYVTII DAPGHRDFIK NMITGTSQAD CAVLIVAAGV GEFEAGISKN GQTREHALLA YTLGVKQLIV GVNKMDSTEP PYSQKRYEEI VKEVSTYIKK IGYNPDTVAF VPISGWNGDN MLEPSANMPW FKGWKVTRKD GNASGTTLLE ALDCILPPTR PTDKPLRLPL QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTTEVK SVEMHHEALS EALPGDNVGF NVKNVSVKDV RRGNVAGDSK NDPPMEAAGF TAQVIILNHP GQISAGYAPV LDCHTAHIAC KFAELKEKID RRSGKKLEDG PKFLKSGDAA IVDMVPGKPM CVESFSDYPP LGRFAVRDMR QTVAVGVIKA VDKKAAGAGK ITKSAQKAQK AK

**General References**

Meriin AB, Zaarur N, et al. (2012). J Cell Sci. 125(Pt 11):2665-74.
Itagaki K, Naito T, et al. (2012). J Biol Chem. 287(19):16037-46.

## DATA

**SDS-PAGE**




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