

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 0.4M urea, 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

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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

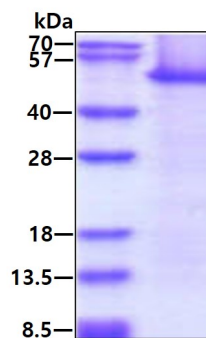
MGKEKTHINI VVIGHVDSGK STTTGHLYIK CGGIDKRTIE KFEKEAAEMG KGSFKYAWVL DKLKAERERG ITIDISLWKF
ETSKYYVTII DAPGHRDFIK NMITGTSQAD CAVLIVAAGV GEFEAGISKN GQTRHALLA YTLGVKQLIV GVNKMDSTEP
PYSQKRYEEI VKEVSTYIKK IGYNPDTVAF VPISGWNGDN MLEPSANMPW FKGWKVTRKD GNASGTTLE ALDCILPPT
PTDKPLRLPL QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTTTEVK SVEMHHEALS EALPGDNVGF NVKNVSVKDV
RRGNVAGDSK NDPPMEAAGF TAQVIILNHP QQISAGYAPV LDCHTAHIAC KFAELKEKID RRSGKKLEDG PKFLKSGDAA
IVDMVPGKPM CVESFSDYPP LGRFAVRDMR QTVAVGVVKA 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.