

AR51433PU-S

Human **EEF1A1 / LENG7 (1-462, His-tag) - Purified**

Alternate names:

CCS-3, CCS3, EEF1A, EF-1-alpha-1, EF-Tu, EF1A, Elongation factor 1 alpha 1, Elongation factor Tu, Eukaryotic elongation factor 1 A-1, FLJ25721, GRAF-1EF, Leukocyte receptor cluster member 7, PTI1, eEF1A-1

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P68104](#)

NCBI:

[NP_001393](#)

GeneID:

[1915](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description:

Recombinant human EEF1A1 protein is expressed in E.coli.

AA Sequence:

MGKEKTHINI VVIGHVDSGK STTTGHLIYK CGGIDKRTIE KFEKEAAEMG KGSFKYAWVL
DKLKAERERG ITIDISLWKF ETSKYVYVII DAPGHRDFIK NMITGTSQAD CAVLIVAAGV
GEFEAGISKV GQTRHALLA YTLGVKQLIV GVNKMDSTEP PYSQKRYEEI VKEVSTYIKK
IGYNPDVAF VPISGWNGDN MLEPSANMPW FKGWKVTRKD GNASGTLLLE ALDCILPPTR
PTDKPLRLPL QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTEVK SVMHHEALS
EALPGDNVGF NVKNVSVKDV RRGNVAGDSK NDPPMEAAGF TAQVIILNHP GQISAGYAPV
LDCHTAHIAC KFAELKEKID RRSKKLEDG PKFLKSGDAA IVDMPVGKPM CVESFSDYPP
LGRFAVRDMR QTVAVGVIIA VDKKAAGAGK ITKSAQKAQK AK

Molecular weight: 50 kDa (462aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

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.

Pictures:

