

Recombinant Human eukaryotic translation elongation factor 1 alpha 1, His-tagged

Cat. No. EEF1A1-516H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EEF1A1, 1-462aa Human, E.coli
Species	Human
Source	E.coli
ProteinLength	1-462 a.a.
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 Feltz 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	50 kDa (462aa)
AA Sequence	MGKEKTHINI VVIGHVDSGK STTTGHLIYK CGGIDKRTIE KFEKEAAEMG KGSFKYAWVL DKLKAERERG ITIDISLWKF ETSKYVVTII DAPGHRDFIK NMITGTSQAD CAVLIVAAGV GEFEAGISK N GQTREHALLA YTLGVKQLIV

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GVNKMDSTEP PYSQKRYEEI VKEVSTYIKK IGYNPDTVAF VPISGWNGDN
 MLEPSANMPW FKGWKVTRKD GNASGTTLE ALDCILPPTR PTDKPLRLPL
 QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTTTEVK SVEMHHEALS
 EALPGDNVGF NVKNVSVKDV RRGNVAGDSK NDPPMEAAGF TAQVIILNHP
 GQISAGYAPV LDCHTAHIAC KFAELKEKID RRSKGKLEDG PKFLKSGDAA
 IVDMPGKPM CVESFSDYPP LGRFAVRDMR QTVAVGVIKA VDKKAAGAGK
 ITKSAQKAQK AK

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [EEF1A1 eukaryotic translation elongation factor 1 alpha 1 \[Homo sapiens \]](#)

Official Symbol EEF1A1

Synonyms CCS3; EF1A; PTI1; CCS-3; EE1A1; EEF-1; EEF1A; EF-Tu; LENG7; eEF1A-1; GRAF-1EF; HNGC:16303

Gene ID [1915](#)

mRNA Refseq [NM_001402.5](#)

Protein Refseq [NP_001393.1](#)

MIM [130590](#)

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UniProt ID	P68104
Chromosome Location	6q14.1
Pathway	EGFR1 Signaling Pathway, organism-specific biosystem;Eukaryotic Translation Elongation, organism-specific biosystem;Gene Expression, organism-specific biosystem;Legionellosis, organism-specific biosystem;Legionellosis, conserved biosystem;Metabolism of proteins, organism-specific biosystem;Peptide chain elongation, organism-specific biosystem;
Function	GTP binding;GTPase activity;protein binding;protein kinase binding;translation elongation factor activity;

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