

**EEF1A1, 1-462aa Human, E.coli**

**Cat.NO.: TP01969**

3th Edition

**Synonyms:**Eukaryotic translation elongation factor 1 alpha 1, CCS-3, CCS3, EEF-1, EEF1A, eEF1A-1, EF-Tu, EF1A, FLJ25721, GRAF-1EF, HNGC:16303, PTI1

**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 Felyt 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 Weight:**50 kDa (462aa)

**Sequences:**

MGKEKTHINIVVIGHVDSGKSTTTGHLIYKCGGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKKAERERGITIDISLWK  
FETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISKNGQTRHALLAYTLGVKQLIVGVNKMDS  
TEPPYSQKRYEEIVKEVSTYIKKIGYNPDTVAFVPISGWNGDNMLEPSANMPWFKGWKVKTRKDGNASGTTLEALD  
CILPPTRPDKPLRLPLQDVYKIGGIGTVPVGRVETGVLPKGMVVTAFVNVVTEVKSVEMHHEALSEALPGDNVGF  
NVKNVSVKDVRRGNVAGDSKNDPPMEAAGFTAQVIILNHPGQISAGYAPVLDCHTAHIACKFAELKEKIDRRSGKKL  
EDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPPLGRFAVRDMRQTVAVGVKAVDKKAAGAGKITKSAQKAQKAK

**Purity:**> 95% by HPLC

**Concentration:**1.0 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

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