

Recombinant Human EEF1A1, GST-tagged

Cat. No. EEF1A1-12288H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EEF1A1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-320a.a.
Description	This gene encodes 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 Feltly syndrome. This gene has been found to have multiple copies on many chromosomes, some of which, if not all, represent different pseudogenes.
Source	E.coli
Species	Human
Tag	GST
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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

Official Symbol EEF1A1

Synonyms

eukaryotic translation elongation factor 1 alpha 1; 3189;
 Ensembl:ENSG00000156508; FLJ25721, MGC16224, MGC102687, MGC131894;
 elongation factor 1-alpha 1; EF-1-alpha-1; EF1a-like protein; CTCL tumor
 antigen; elongation factor Tu; cervical cancer suppressor 3; elongation factor 1 alpha
 subunit; prostate tumor-inducing protein 1; eukaryotic elongation factor 1 A-1; leukocyte
 receptor cluster member 7; leukocyte receptor cluster (LRC) member 7; translation
 elongation factor 1 alpha 1-like 14; glucocorticoid receptor AF-1 specific elongation
 factor; eukaryotic translation elongation factor 1 alpha 1-like 14; 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](#)

UniProt ID [P68104](#)

Chromosome Location 6q14.1

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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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