

Active Recombinant Human EEF1A1, GST-tagged

Cat. No. EEF1A1-8508H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EEF1A1,fused with GST tag,was expressed in E. coli.
Species	Human
Source	E.coli
Description	The alpha subunit of elongation factor-1 (EEF1A) is involved in the binding of aminoacyl-tRNAs to 80S ribosomes. During the process, GTP is hydrolyzed into GDP. To perform this function, EEF1A has domains that bind guanine nucleotides, 80S ribosomes, and aminoacyl-tRNAs. Also, EEF1A interacts with the beta subunit of EEF1 to exchange bound GDP for GTP. Multimolecular complexes involving the eukaryotic elongation factor 1A (eEF1A) have been suggested to play an important role in the channeling (vectorial transfer) of tRNA during protein synthesis HIV-1 matrix protein (MA) was found to interact with elongation factor 1-alpha (EF1alpha), an essential component of the translation machinery that delivers aminoacyl-tRNA to ribosomes. The interaction between MA and EF1alpha impairs translation in vitro, a result consistent with a previously proposed model in which inhibition of translation by the accumulation of Gag serves to release viral RNA from polysomes, permitting the RNA to be packaged into nascent virions. It has been identified that the translation elongation factor, eEF1A, and its guanine nucleotide exchange factor, eEF1Bbeta, as translationally controlled tumor protein (TCTP) -interacting partners.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA

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Bio-activity	1 unit equals 1 ng of purified protein. 100 units (ng) are sufficient for a protein-protein interaction assay.
AA Sequence	MGKEKTHINI VVIGHVDSGK STTTGHLIYK CGGIDKRTIE KFEKEAAEMG KGSFKYAWVL DKLKAERERG ITIDISLWKF ETSKYVVTII DAPGHRDFIK NMITGTSQAD CAVLIVAAGV GEFEAGISKV GQTREHALLA YTLGVKQLIV GVNKMDSTEP PYSQKRYEEI VKEVSTYIKK IGYNPDTVAF VPISGWNGDN MLEPSANMPW FKGWKVTRKD GNASGTTLL EALDCILPPTTR PTDKPLRLPL QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTTTEVK SVEMHHEALS EALPGDNVGF NVKNVSVKDV RRGNVAGDSK NDPPMEAAGF TAQVIILNHP GQISAGYAPV LDCHTAHIAC KFAELKEKID RRSKGKLEDG PKFLKSGDAA IVDMPGKPM CVESFSDYPP LGRFAVRDMR QTVAVGVIIA VDKKAAGAGK VTKSAQKAQK AK
Purity	>95% as determined by SDS-PAGE
Storage	-80 °C
Concentration	350 µg/ml
Shipping	Dry Ice

GENE INFORMATION

Gene Name	EEF1A1 eukaryotic translation elongation factor 1 alpha 1 [Homo sapiens]
Official Symbol	EEF1A1
Synonyms	EEF1A1; eukaryotic translation elongation factor 1 alpha 1; 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

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protein 1eukaryotic elongation factor 1 A-1; leukocyte receptor cluster member 7; leukocyte receptor cluster (LRC) member 7translation elongation factor 1 alpha 1-like 14; glucocorticoid receptor AF-1 specific elongation factor; eukaryotic translation elongation factor 1 alpha 1-like 14

Gene ID	1915
mRNA Refseq	NM_001402
Protein Refseq	NP_001393
MIM	130590
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
Function	GTP binding; GTPase activity; protein binding