

Elongation factor 1-alpha 1 (EEF1A1) Recombinant Protein | EEF1A1 recombinant protein

Recombinant Human Elongation factor 1-alpha 1 (EEF1A1)

CATALOG # AAA18596	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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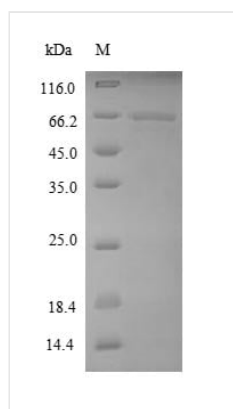
PRODUCT SYNONYMS

Elongation factor 1-alpha 1 (EEF1A1); Recombinant Human Elongation factor 1-alpha 1 (EEF1A1); Elongation factor Tu; EF-Tu; Eukaryotic elongation factor 1 A-1; e; EF1A-1; Leukocyte receptor cluster member 7; EEF1A1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-462aa; Full Length
Sequence	MGKEKTHINI VVIGHVDSGK STTTGHLYIK CGGIDKRTIE KFEKEAAEMG KGSFKYAWVL DKLKAERERG ITIDISLWKF ETSKYYVTII DAPGHRDFIK NMITGTSQAD CAVLIVAAGV GEFEAGISK N GQTREHALLA YTLGVKQLIV GVNKMDSTEP PYSQKRYEEI VKEVSTYIKK IGYNPDTVAF VPISGWNGDN MLEPSANMPW FKGWKVTRKD GNASGTTTLE ALDCILPPTR PTDKPLRLPL QDVYKIGGIG TVPVGRVETG VLKPGMVVTF APVNVTTTEVK SVEMHHEALS EALPGDNVGF NVKNVSVKDV RRGNVAGDSK NDPPMEAAGF TAQVIILNHP GQISAGYAPV LDCHTAHIAC KFAELKEKID RRSKGKLEDG PKFLKSGDAA IVDMPVGKPM CVESFSDYPP LGRFAVRDMR QTVAVGVIIA VDKKAAGAGK VTKSAQKAQK AK
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for EEF1A1 recombinant protein	This protein promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. With PARP1 and TXK, forms a complex that acts as a T helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production.
Product Categories/Family for EEF1A1 recombinant protein	Epigenetics and Nuclear Signaling

References	The primary structure of the alpha subunit of human elongation factor 1. Structural aspects of guanine-nucleotide-binding sites.Brands J.H.G.M., Maassen J.A., van Hemert F.J., Amons R., Moeller W.Eur. J. Biochem. 155:167-171(1986) Isolation and characterization of the human chromosomal gene for polypeptide chain elongation factor-1 alpha.Uetsuki T., Naito A., Nagata S., Kaziro Y.J. Biol. Chem. 264:5791-5798(1989) Retropseudogenes constitute the major part of the human elongation factor 1 alpha gene family.Madsen H.O., Poulsen K., Dahl O., Clark B.F.C., Hjorth J.P.Nucleic Acids Res. 18:1513-1516(1990) Postnatal expression of a novel mRNA isoform from the human elongation factor-1a gene.Shimazu T., Koike K. Structure of the amino-terminal end of mammalian elongation factor Tu.Rao T.R., Slobin L.I.Nucleic Acids Res. 14:2409-2409(1986) Bienvenut W.V., Zebisch A., Kolch W.Submitted (JAN-2010) to UniProtKB Txk, a member of the non-receptor tyrosine kinase of the Tec family, forms a complex with poly(ADP-ribose) polymerase 1 and elongation factor 1alpha and regulates interferon-gamma gene transcription in Th1 cells.Maruyama T., Nara K., Yoshikawa H., Suzuki N.Clin. Exp. Immunol. 147:164-175(2007) Bienvenut W.V.Submitted (JUN-2005) to UniProtKB Retinol-regulated gene expression in human tracheobronchial epithelial cells. Enhanced expression of elongation factor EF-1 alpha.Ann D.K., Wu M.M.J., Huang T., Carlson D.M., Wu R.J. Biol. Chem. 263:3546-3549(1988) Murine elongation factor 1 alpha (EF-1 alpha) is posttranslationally modified by novel amide-linked ethanolamine-phosphoglycerol moieties. Addition of ethanolamine-phosphoglycerol to specific glutamic acid residues on EF-1 alpha.Whiteheart S.W., Shenbagarmurthi P., Chen L., Cotter R.J., Hart G.W.J. Biol. Chem. 264:14334-14341(1989) Binding of zinc finger protein ZPR1 to the epidermal growth factor receptor.Galcheva-Gargova Z., Konstantinov K.N., Wu I.-H., Klier F.G., Barrett T., Davis R.J.Science 272:1797-1802(1996) Induction of acute translational response genes by homocysteine. Elongation factors-1alpha, -beta, and -delta.Chacko G., Ling Q., Hajjar K.A.J. Biol. Chem. 273:19840-19846(1998) Exp5 exports eEF1A via tRNA from nuclei and synergizes with other transport pathways to confine translation to the cytoplasm.Bohnsack M.T., Regener K., Schwappach B., Saffrich R., Paraskeva E., Hartmann E., Goerlich D.EMBO J. 21:6205-6215(2002) Exportin-5-mediated nuclear export of eukaryotic elongation factor 1A and tRNA.Calado A., Treichel N., Mueller E.-C., Otto A., Kutay U.EMBO J. 21:6216-6224(2002) Proteomic identification of proteins conjugated to Isg15 in mouse and human cells.Giannakopoulos N.V., Luo J.K., Papov V., Zou W., Lenschow D.J., Jacobs B.S., Borden E.C., Li J., Virgin H.W., Zhang D.E.Biochem. Biophys. Res. Commun. 336:496-506(2005) Male germ cell expression of the PAS domain kinase PASKIN and its novel target eukaryotic translation elongation factor eEF1A1.Eckhardt K., Troger J., Reissmann J., Katschinski D.M., Wagner K.F., Stengel P., Paasch U., Hunziker P., Bortner E., Barth S., Schlafl P., Spielmann P., Stiehl D.P., Camenisch G., Wenger R.H.Cell. Physiol. Biochem. 20:227-240(2007) Lysyl-tRNA synthetase interacts with EF1alpha, aspartyl-tRNA synthetase and p38 in vitro.Guzzo C.M., Yang D.C.H.Biochem. Biophys. Res. Commun. 365:718-723(2008) The possible interaction of CDA14 and protein elongation factor 1alpha.Yang Y.F., Chou M.Y., Fan C.Y., Chen S.F., Lyu P.C., Liu C.C., Tseng T.L.Biochim. Biophys. Acta 1784:312-318(2008) The SAM domain of the RhoGAP DLC1 binds EF1A1 to regulate cell migration.Zhong D., Zhang J., Yang S., Soh U.J., Buschdorf J.P., Zhou Y.T., Yang D., Low B.C.J. Cell Sci. 122:414-424(2009) Phosphorylation of eEF1A1 at Ser300 by TbetaR-I results in inhibition of mRNA translation.Lin K.W., Yakymovych I., Jia M., Yakymovych M., Souchelnytskyi S.Curr. Biol. 20:1615-1625(2010)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503471
NCBI GeneID	1915
NCBI Accession #	NP_001393.1
NCBI GenBank Nucleotide #	NM_001402.5
UniProt Accession #	P68104; P04719; P04720; Q6IQ15
Molecular Weight	66.1 kDa
NCBI Official Full Name	elongation factor 1-alpha 1
NCBI Official Synonym Full Names	eukaryotic translation elongation factor 1 alpha 1
NCBI Official Symbol	EEF1A1
NCBI Official Synonym Symbols	CCS3; EF1A; PTI1; CCS-3; EE1A1; EEF-1; EEF1A; EF-Tu; LENG7; eEF1A-1; GRAF-1EF; HNGC:16303
NCBI Protein Information	elongation factor 1-alpha 1
UniProt Protein Name	Elongation factor 1-alpha 1
UniProt Gene Name	EEF1A1
UniProt Synonym Gene Names	EEF1A; EF1A; LENG7; EF-1-alpha-1; EF-Tu; eEF1A-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/eef1a1-recombinant-protein-e-coli/18596>