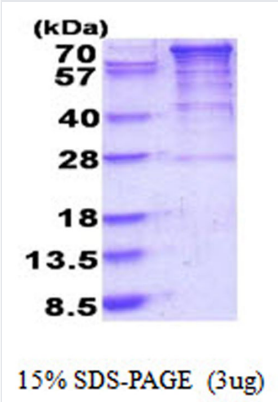
EEF2K Recombinant Protein

PRODUCT OVERVIEW

Product Name	EEF2K, Recombinant Protein
Full Product Name	EEF2K, 1-725aa, Human, His tag, E Coli
Product Gene Name	EEF2K recombinant protein
Product Synonym Names	Eukaryotic elongation factor-2 kinase; eEF-2K; HSu93850; eEF2K
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMADEDLI FRLEGVDGGQ SPRAGHDGDS DGDSDDEEGY FICPITDDPS SNQNVNSKVN KYYSNLTKSE RYSSSGSPAN SFHFKEAWKH AIQKAKHMPD PWAEFHLEDI ATERATRHRY NAVTGEWLDD EVLIKMASQP FGRGAMRECF RTKKLSNFLH AQQWKGASNY VAKRYIEPVD RDVYFEDVRL QMEAKLWGEE YNRHKPPKQV DIMQMCIIEL KDRPGKPLFH LEHYIEGKYI KYNSNSGFVR DDNIRLTPQA FSHFTFERSG HQLIVVDIQG VGDLYTDPQI HTETGTDFGD GNLGVRGMAL FFYSHACNRI CESMGLAPFD LSPRERDAVN QNTKLLQSAK TILRGTEEKC GSPRVRTLSG SRPPLLRPLS ENSGDENMSD VTFDSLPSSP SSATPHSQKL DHLHWPVFSD LDNMASRDHD HLDNHRESEN SGDSGYPSEK RGELDDPEPR EHGHSYSNRK YESDEDSLGS SGRVCVEKWN LLNSSRLHLP RASAVALEVQ RLNALDLEKK IGKSILGKVH LAMVRYHEGG RFCEKGEEWD QESAVFHLEH AANLGELEAI VGLGLMYSQL PHHILADVSL KETEENKTKG FDYLLKAAEA GDRQSMILVA RAFDSGQNLS PDRCQDWLEA LHWYNTALEM TDCDEGGEYD GMQDEPRYMM LAREAEMLFT GGYGLEKDPQ RSGDLYTQAA EAAMEAMKGR LANQYYQKAE EAWAQMEE
Host	E Coli
Form/Format	Liquid. In phosphate buffered saline (pH 7.4), 10% glycerol
Purity/Purification	> 85% by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	84.6 kDa (748aa)
OMIM	U93850 mRNA
3D Structure	ModBase 3D Structure for O00418
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for EEF2K recombinant protein	Epigenomics (Transcription & Translation)
Applications Tested/Suitable for EEF2K recombinant protein	SDS-PAGE
Related Product Information for EEF2K recombinant protein	Eukaryotic elongation factor-2 kinase, also known as EEF2K, is threonine kinase that regulates protein synthesis by controlling the rate of peptide chain elongation. upon activation by a variety of upstream kinases including AMPK or TRPM7, phosphorylates the elongation factor EEF2 at a single site, renders it unable to bind ribosomes and thus inactive. Recombinant human EEF2K protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product References and Citations for EEF2K recombinant protein	Ryazanov A.G., et al. (1997) Proc. Natl. Acad. Sci. u.S.A. 94:4884-4889; Knebel A., et al. (2001) EMBO J. 20:4360-4369
Other Notes	Small volumes of EEF2K recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for EEF2K purchase	MBS205915 is a recombinant protein targeting EEF2K. Also known as EEF2K, 1-725aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of EEF2K recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EEF2K. It may not necessarily be applicable to this product.

NCBI GI #	9558749
NCBI GeneID	29904
NCBI Accession #	NP_037434
UniProt Primary Accession #	O00418
UniProt Secondary Accession #	Q8N588
UniProt Related Accession #	O00418
GenBank Nucleotide #	NM_013302.3
NCBI Official Full Name	eukaryotic elongation factor 2 kinase
NCBI Official Synonym Full Names	eukaryotic elongation factor 2 kinase
NCBI Official Symbol	EEF2K
NCBI Official Synonym Symbols	eEF-2K; HSU93850
UniProt Protein Name	Eukaryotic elongation factor 2 kinase
UniProt Synonym Protein Names	Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase
Protein Family	Eukaryotic elongation factor 2 kinase
UniProt Gene Name	EEF2K
UniProt Synonym Gene Names	eEF-2 kinase; eEF-2K
NCBI Protein Information	eukaryotic elongation factor 2 kinase
NCBI Summary for EEF2K	This gene encodes a highly conserved protein kinase in the calmodulin-mediated signaling pathway that links activation of cell surface receptors to cell division. This kinase is involved in the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2) and thus inhibits the EEF2 function. The activity of this kinase is increased in many cancers and may be a valid target for anti-cancer treatment. [provided by RefSeq, Jul 2008]
UniProt Comments for EEF2K	Threonine kinase that regulates protein synthesis by controlling the rate of peptide chain elongation. Upon activation by a variety of upstream kinases including AMPK or TRPM7, phosphorylates the elongation factor EEF2 at a single site, renders it unable to bind ribosomes and thus inactive. In turn, the rate of protein synthesis is reduced.
Research Articles on EEF2K	**1.** Data suggest forkhead box M1 (FOXM1)/eukaryotic elongation factor 2 kinase (eEF2K) axis as a molecular target in breast and other cancers.

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