

Recombinant Human eukaryotic elongation factor-2 kinase, His-tagged

Cat. No. EEF2K-614H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EEF2K, 1-725aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-725 a.a.
Description	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.
Form	Liquid. In Phosphate buffered saline (pH7.4), 10% glycerol
Molecular Mass	84.6 kDa (748aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMADEDLI FRLEGVDGGQ SPRAGHDGDS DGDSDDDEEGY FICPITDDPS SNQNVNSKVN KYYSNLTKSE RYSSSGSPAN SFHFKEAWKH AIQKAKHMPD PWAEFHLEDI ATERATRHRV NAVTGEWLDD EVLIKMASQP FGRGAMRECF RTKKLSNFLH AQQWKGASNY VAKRYIEPVD

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RDVYFEDVRL QMEAKLWGEE YNRHKPPKQV DIMQMCIEL KDRPGKPLFH
 LEHYIEGKYI KYNSNSGFVR DDNIRLTPQA FSHFTFERSG HQLIVVDIQG
 VGDLYTDPQI HTETGTDFGD GNLGVGMAL FFYSHACNRI CESMGLAPFD
 LSPRERDAVN QNTKLLQSAK TILRGTEKC GSPRVRTLST SRPLLRPLS
 ENSGDENMSD VTFDSLPSST SSATPHSQKL DHLHWPVFSN LDNMSARDHD
 HLDNHRESEN SGDSGYPSEK RGELDDPEPR EHGHSSYNNRK YESDEDSLGS
 SGRVCVEKWN LLNSSRLHLP RASAVALEVQ RLNALDLEKK IGKSILGKVH
 LAMVRYHEGG RFCEKGEEWD QESAVFHLEH AANLGELEAI VGLGLMYSQI
 PHHILADVSL KETEENKTKG FDYLLKAAEA GDRQSMILVA RAFDSGQNLS
 PDRCQDWLEA LHWYNTALEM TDCDEGGEYD GMQDEPRYMM LAREAEMLFT
 GGYGLEKDPQ RSGDLYTQAA EAAMEAMKGR LANQYYQKAE EAWAQMEE

Purity >85% by SDS - PAGE

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

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [EEF2K eukaryotic elongation factor-2 kinase \[Homo sapiens \]](#)

Official Symbol EEF2K

Synonyms EEF2K; eukaryotic elongation factor-2 kinase; eukaryotic elongation factor 2 kinase; eEF 2K; eEF-2 kinase; elongation factor-2 kinase; eukaryotic elongation factor 2 kinase; calmodulin-dependent protein kinase III; calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase; calcium/calmodulin-dependent eukaryotic elongation factor-2 kinase; eEF-2K; HSU93850; MGC45041;

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Gene ID	29904
mRNA Refseq	NM_013302
Protein Refseq	NP_037434
MIM	606968
UniProt ID	O00418
Chromosome Location	16p12
Pathway	IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem; PI3K Cascade, organism-specific biosystem; PKB-mediated events, organism-specific biosystem; S6K1 signalling, organism-specific biosystem; S6K1-mediated signalling, organism-specific biosystem;
Function	ATP binding; binding; calcium ion binding; calmodulin binding; elongation factor-2 kinase activity; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; translation factor activity, nucleic acid binding;