

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 SGLVPRGSH MGSMADLI FRLEGVDGGQ SPRAGHDGDS DGSDDEEGY FICPITDDPS SNQNVNSKVN KYYSNLTKSE RYSSSGSPAN SFHFKEAWKH AIQKAKHMPD PWAEFHLEDI ATERATRHRV NAVTGEWLDD EVLIKMASQP FGRGAMRECF RTKKLSNFLH AQQWKGASNY VAKRYIEPVD

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RDVYFEDVRL QMEAKLWGEE YNRHKPPKQV DIMQMCIIEL KDRPGKPLFH
 LEHYIEGKYI KYNSNSGFVR DDNIRLTPQA FSHFTFERSG HQLIVVDIQG
 VGDLYTDPQI HTETGTDFGD GNLGVRGMAL FFYSHACNRI CEMGLAPFD
 LSPRERDAVN QNTKLLQSAK TILRGTEEK C GSPRVRTL SG SRPPLLRPLS
 ENSGDENMSD VTFDSLPS SPSSATPHSQKL DHLHWPVFS D LDNMSARDHD
 HLDNHRESEN SGDSGYPSEK RGELDDPEPR EHGHSYSNRK YESDEDSLGS
 SGRVCVEKWN LLNSSRLHLP RASAVALEVQ RLNALDLEKK IGKSILGKVH
 LAMVRYHEGG RFCEKGEEWD QESAVFHLEH AANLGELEAI VGLGLMYSQL
 PHHILADVSL KETEENKTKG FDYLLKAAEA GDRQSMILVA RAFDSGQNL S
 PDRQCQDWLEA 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;

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