

32-3000: EEF2K Recombinant Protein

Alternative Name : Eukaryotic Elongation Factor 2 Kinase, Calcium/Calmodulin-Dependent Eukaryotic Elongation Factor 2 Kinase, EEF-2 Kinase, EC 2.7.11.20, EEF-2K, Calcium/Calmodulin-Dependent Eukaryotic Elongation Factor-2 Kinase, Calmodulin-Dependent Protein Kinase III

Description

Source : Escherichia Coli. EEF2K Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 748 amino acids (1-725 a.a) and having a molecular mass of 84.6kDa. EEF2K is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Eukaryotic elongation factor-2 kinase (EEF2K) is threonine kinase which regulates protein synthesis by means of controlling the rate of peptide chain elongation. Upon activation through a diversity of upstream kinases including AMPK or TRPM7, EEF2K phosphorylates the elongation factor EEF2 at a sole site, renders it unable to bind ribosomes and therefore inactive. In turn, the rate of protein synthesis is being reduced.

Product Info

Amount : 10 µg
Purification : Greater than 85.0% as determined by SDS-PAGE.
Content : EEF2K protein solution (0.25 mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMADLI FRLEGVDGGQ SPRAGHDGDS DGDSDEEGY FICPITDDPSSNQVNSKVN KYNSLTKSE RYSSSGSPAN SFHFKEAWKH AIQKAKHMPD PWAEFHLEDI ATERATRHRYNNAVTEWLLDD EVLIKMASQP FGRGAMRECF RTKKLSNFLHAQQWKGASNY VAKRYIEPVD RDVYFEDVRL QMEAKLWGEE YNRHKPPKQVDIMQMCIEL KDRPGKPLFH LEHYIEGKYI KYNSNSGFVR DDNIRLTPQA FSHFTFERSG HQLIVVDIQGVGDLYTDPQI HTETGTDFGD GNLGVRGMAL FFYSHACNRI CESMGLAPFD LSPRERDAVNQNTKLLQSAK TILRGTEEK GSPRVRTLGS SRPPLLRLPS ENSGDENMSDVTFDLSPSS SSATPHSQKL DHLHWPVFS LDNMSRDHD HLDNHRESEN SGDSGYPSEK RGELDDPEPREHGHYSNRK YESDEDSLGS SGRVCVEKWN LLNSSRLHLP RASAVALEVQ RLNALDLEKKIGKSILGKVH LAMVRYHEGG RFCEKGEED QESAVFHLEH AANLGELEAIVGLGLMYSQL PHHILADVSL KETEENKTKG FDYLLKAAEA GDRQSMILVA RAFDSGQNLN PDRCQDWLEALHWYNTALEM TDCDEGGEYD GMQDEPRYMM LAREAEMLFT GGYGLEKDPQ RSGDLYTQAAEAAMEAMKGR LANQYYQKAE EAWAQMEE.