9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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EEF2K Human

Eukaryotic Elongation Factor-2 Kinase Human Recombinant
RCP0711

Product Overview

Name	EEF2K Human
Description	
Eukaryotic Elongation Factor-2 Kinase Human Recombinant	
Accession (Primary)	O00418
Synonyms	
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, Eukaroytic Elongation Factor 2 Kinase, Eukaryotic Elongation Factor-2 Kinase, Elongation Factor-2 Kinase, EC 2.7.11, HSU93850, Eukaryotic elongation factor 2 kinase.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
EEF2K protein solution (0.25 mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol.	
Stability	
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.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MADEDLI FRLEGVDGGQ SPRAGHDGDS DGDSDDEEGY FICPITDDPS SNQNVNSKVN KYYSNLTKSE RYSSSGSPAN SFHFKEAWKH AIQKAKHMPD PWAEFHLEDI ATERATRHRY	

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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.

Precautions

EEF2K Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O00418)