
Product Data Sheet

Product Name: EEF2K Human

Cat. No.: GP22484

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

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; Eukaryotic Elongation Factor 2 Kinase; Eukaryotic Elongation Factor-2 Kinase; Elongation Factor-2 Kinase; EC 2.7.11; HSU93850; Eukaryotic elongation factor 2 kinase.

Amino Acid Sequence
 MGSSHHHHH SGLVPRGSH MGSMADEDLI FRLEGVDGGQ SPRAGHDGDS
 DGSDDEEGY FICPITDDPSSNQNVNSKVN KYYSNLTKSE RYSSSGSPAN
 SFHFKEAWKH AIQKAKHMPD PWAEFHLEDI ATERATRHRYNAV TGEWLDD
 EVLIKMASQP FGRGAMRECF RTKKLSNFLHAQQWKGASNY VAKRYIEPVD
 RDVYFEDVRL QMEAKLWGEE YNRHKPPKQVDIMQMCIEL KDRPGKPLFH
 LEHYIEGKYI KYNSNSGFVR DDNIRLTPQA FSHFTFERSG
 HQLIVVDIQGVGDLYTDPQI HTETGTDFGD GNLGVRGMAL FFYSHACNRI
 CEMGLAPFD LSPRERDAVNQNTKLLQSAK TILRGTEKC GSPRVRTLSTG
 SRPPLLRPLS ENSGDENMSDVTFDSLPS SPATPHSQKL DHLHWPVFSD
 LDNMSARDHD HLDNHRESEN SGDSGYPSEK RGELDDPEPREHGHSYSNRK
 YESDEDSLGS SGRVCVEKWN LLNSSRLHLP RASAVALEVQ
 RLNALDLEKKIGKSILGKVH LAMVRYHEGG RFCEKGEEDW QESAVFHLEH
 AANLGELEAIVGLGLMYSQL PHHILADVSL KETEENKTKG FDYLLKAAEA
 GDRQSMILVA RAFDSGQNLSPDRCDWLEALHWYNTALEM TDCDEGGEYD
 GMQDEPRYMM LAREAEMLFT GGYGLEKDPQ RSGDLYTQAAEAAMEAMKGR
 LANQYYQKAE EAWAQMEE.

Formulation EEF2K protein solution (0.25 mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol.

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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.

Background

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.

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