

EEF2K, 1-725aa, Human, His tag, E.coli

Cat.NO.: TP01975

3th Edition

Synonyms:Eukaryotic elongation factor-2 kinase, eEF-2K, HSU93850, eEF2K

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 Weight:84.6 kDa (748aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMADLIFRLEGVDGGQSPRAGHDGSDGSDSDEEGYFICPITDDPSSNQN
VNSKVNKYYSNLTKSERYSSSGSPANSFHFKEAWKHAIQKAKHMPDPWAEFHLEDIATERATRHRYNNAVTEWLD
DEVLIKMASQPFRGAMRECFRTKKLSNFLHAQQWKGASNYVAKRYIEPVDRDVYFEDVRLQMEAKLWGEEYNR
HKPPKQVDIMQMCIIELKDRPGKPLFHLEHYIEGKYIKYNSNSGFVRRDDNIRLTPQAFSHFTFERSGHQLIVVDIQGV
GDLYTDPQIHTETGTDFGDGNLGVRGMALFFYSHACNRICESMGLAPFDLSPRERDAVNQNTKLLQSAKTILRGTE
EKCGSPRVRTLSGSRPPLLRPLENSGDENMSDVTFDSLSPSSSATPHSQKLDHLHWPVFSLDLNMASRDHDHL
DNHRESENSGDSGYPSEKRGELDDPEPREHGHYSNRKYESDEDSLGSGRVCVEKWNLNSSLRHLPRASAVA
LEVQRLNALDLEKKIGKSILGKVLAMVRYHEGGRFCEKGEEDWQESAVFHLEHAANLGELEAIVGLGLMYSQLPH
HILADVSLKETEENKTKGFDYLLKAAEAGDRQSMILVARAFDSGQNLSPDRQCQDWLEALHWYNTALEMTDCDEGG
EYDGMQDEPRYMMLAREAEMLFTGGYGLEKDPQRSGLYTAQAAEAAMEAMKGRLANQYYQKAEAEAWAQMEE

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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