

Recombinant Human EEF2K Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EEF2K-3825H Lot. No. (See product label)

SPECIFICATION

Product Overview

EEF2K MS Standard C13 and N15-labeled recombinant protein (NP_037434) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes a highly conserved protein kinase in the calmodulin-mediated signaling pathway that links activation of cell surface receptors to cell division. This kinase is involved in the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2) and thus inhibits the EEF2 function. The activity of this kinase is increased in many cancers and may be a valid target for anti-cancer treatment.

Molecular Mass

82.2 kDa

AA Sequence

MADEDLIFRLEGVDGGQSPRAGRDRGSDGSDSDEEGYFICPITDDPSSNQNVNSKV
NKYYSNLTKSERYSSSGSPANSFHFKEAWKHAIQKAKHMPDPWAEFHLEDIATERA
TRHRYNAVVTGEWLDDEVLIKMASQPFGRGAMRECFRTKKLSNFLHAQQWKGASNY
VAKRYIEPVDVRDVFEDVRLQMEAKLWGEEYNRHKPPKQVDIMQMCIIELKDRPGK
PLFHLEHYIEGKYIKYNSNSGFVRRDDNIRLTPQAFSHFTFERSGHLIVVDIQGVGDL
YTD PQIHTETGTDFGDGDLGVRGMALFFYSHACNRICESMGLAPFDLSPRERDAVN
QNTKLLQSAKTILRGTEEKCGSPRVRTLSGSRPPLLRLPSENSGDENMSDVTFDLSP

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SSPSSATPHSQKLDHLHWPVFSDLDNMASRDHDHLDNHRESENSGDSGYPSEKR
GELDDPEPREHGHSSYSNRKYESDEDSLGSSEGRVCVEKWNLLNSSRLHLPRASAVA
LEVQRLNALDLEKKIGKSILGKVHLAMVRYHEGGRFCEKGEEWDQESAVFHLEHAA
NLGELEAIVGLGLMYSQLP HHILADVSLKETEENKTKGFDYLLKAAEAGDRQSMILVA
RAFDGQNLSPDRQCQDWLEALHWYNTALEMTDCDEGGEYDGMQDEPRYMMLAR
EAEMLFTGGYGLEKDPQRSGLDLYTQAAEAAMEAMKGRLANQYYQKAAEEAWAQME
ETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [EEF2K eukaryotic elongation factor-2 kinase \[Homo sapiens \(human\) \]](#)

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

SDS-PAGE



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