

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	MADEDLIFRLEGVDGGQSPRAGR DGSDGSDDEEGYFICPITDDPSSNQNVNSKV NKYYSNLTKSERYSSSGSPANSFHFKEAWKHAIQKAKHMPDPWAEFHLEDIATERA TRHRYNAV TGEWLDDEVLIKMASQPFGRGAMRECFRTKKLSNFLHAQQWKGASNY VAKRYIEPVDRDVYFEDVRLQMEAKLWGEEYNRHKPPKQVDIMQMCIIELKDRPGK PLFHLEHYIEGKYIKYNSNSGFVRDDNIRLTPQAFSHFTFERSGHLIVVDIQGVGDL YTD PQIHTETGTDFGDGNLGV RGMALFFYSHACNRICESMGLAPFDLSPRERDAVN QNTKLLQSAKTILRGTEEKCGSPRVRTLSGSRPPLLRPLSENSGDENMSDVTFDSLP

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SSPSSATPHSQKLDHLHWPVFSDLDNMASRDHDHLDNHRESENSGDSGYPSEKR
 GELDDPEPREHGHSSYSNRKYESDEDSLGSSEGRVCVEKWNLNSSLRLHLPRASAVA
 LEVQRLNALDLEKKIGKSILGKVHLAMVRYHEGGRFCEKGEEWDQESAVFHLEHAA
 NLGELEAIVGLGLMYSQLPHHILADVSLKETEEENKTKGFDYLLKAAEAGDRQSMILVA
 RAFDSGQNLSPDRCQDWLEALHWYNTALEMTDCDEGGEYDGMQDEPRYMMLAR
 EAEMLFTGGYGLEKDPQRSGLYTQAAEAAMEAMKGRLANQYYQKAAEEAWAQME
 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	