

Recombinant Full Length Human EEF2K Protein, GST-tagged

Cat. No. EEF2K-4219HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human EEF2K full-length ORF (AAH32665, 1 a.a. - 725 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	725 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	105.49 kDa
AA Sequence	MAEDLIFRLEGVDGGQSPRAGRDGSDGSDSDEEGYFICPITDDPSSNQNVNSKV NKYYSNLTKSERYSSSGSPANSFHFKEAWKHAIQKAKHMPDPWAEFHLEDIATERA TRHRYNAVTEGEWLDDEVLIKMASQPFGRGAMRECFRTKKLSNFLHAQQWKGASNY VAKRYIEPVD RDVYFEDVRLQMEAKLWGEEYNRHKPPKQVDIMQMCIIELKDRPGK PLFHLEHYIEGKYIKYNSNSGFVRDDNIRLTPQAFSHFTFERSGHLIVVDIQGVGDL YTDPQIHTETGTDGFDGNLGVGMALFFYSHACNRICESMGLAPFDLSPRERDAVN QNTKLLQSAKTILRGTEEKCGSPRVRTLSGSRPPLLRPLSENSGDENMSDVTFDSLP

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SSPSSATPHSQKLDHLHWPVFSDLDNMASRDHDHLDNHRESENSGDSGYPSEKR
 GELDDPEPREHGHSSYSNRKYESDEDSLGSSEGRVCVEKWNLLNSSRLHLPRASAVA
 LEVQRLNALDLEKKIGKSILGKVLAMVRYHEGGRFCEKGEEDWQESAVFHLEHAA
 NLGELEAIVGLGLMYSQPHHILADVSLKETEEENKTGKGFYLLKAAEAGDRQSMILVA
 RAFDSGQNLSPDRCQDWLEALHWYNTALEMTDCDEGGEYDGMQDEPRYMMLAR
 EAEMLFTGGYGLEKDPQRSGLDLYTQAAEAAMEAMKGRLANQYYQKAAEEAWAQME
 E

Applications

- Kinase Assay
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

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

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