Recombinant Human EEF2K, GST-tagged, Active

Cat. No. EEF2K-296H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human EEF2K was expressed by baculovirus in*Sf9 insect cell*susing an N-terminal GST tag. MW=125 kDa.
Species	Human
Source	Sf9 Cells
Description	EEF2K is a highly conserved calmodulin-dependent protein kinase that links activation of cell surface receptors to cell division. EEF2K is involved in the regulation of protein synthesis. It phosphorylates eukaryotic elongation factor 2 (EEF2), an abundant cytoplasmic protein that catalyzes the movement of the ribosome along mRNA during translation in eukaryotic cells, and inhibits the EEF2 function. EEF2K is highly expressed in heart and skeletal muscle, suggesting that EEF2 phosphorylation may be particularly important in muscle. EEF2K is highly expressed in patients with systemic lupus erythematosus as well as in many cancers.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70^{o}C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

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Gene Name	EEF2K eukaryotic elongation factor-2 kinase [Homo sapiens]
Synonyms	EEF2K; eukaryotic elongation factor-2 kinase; eEF-2K; HSU93850; MGC45041; elongation factor-2 kinase; eEF-2 kinase; calmodulin-dependent protein kinase III; calcium/calmodulin-dependent eukaryotic elongation factor-2 kinase; EC 2.7.11.20
Gene ID	29904
mRNA Refseq	NM_013302
Protein Refseq	NP_037434
MIM	606968
UniProt ID	O00418
Chromosome Location	16p12
Pathway	Signaling by Insulin receptor
Function	ATP binding; calcium ion binding; elongation factor-2 kinase activity; nucleotide binding; protein serine/threonine kinase activity; transferase activity; translation factor activity, nucleic acid binding

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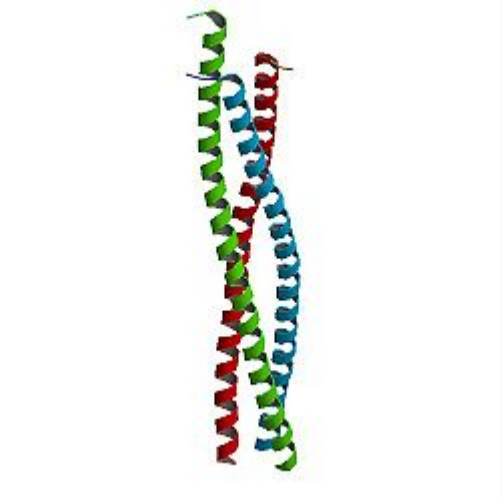
PDB rendering based on 1wt6.	

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