Recombinant Human MKNK2, GST-tagged, Active

Cat. No. MKNK2-356H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MNK2 was expressed by baculovirus in*Sf9*insect cells using a N-terminal GST tag. MW = 74 kDa.
Species	Human
Source	Sf9 Cells
Description	MNK2 (MAP kinase-interacting kinase 2) contains a conserved C-terminal ERK-interacting domain, a catalytic domain with homology to the calcium/calmodulin-dependent family of kinases, and putative MAP kinase phosphorylation sites located within the T loop of the kinase domain. MNK2 binds tightly to the growth factor-regulated MAP kinases, ERK1 and ERK2. ERK and p38 phosphorylate MNK2, which stimulates its in vitro kinase activity toward a substrate, eukaryotic initiation factor-4E (eIF-4E). A yeast two-hybrid screen showed the Mnk2 protein interacted with the ligand-binding domain of estrogen receptor beta (ERbeta).
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70℃. 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	MKNK2 MAP kinase interacting serine/threonine kinase 2 [Homo sapiens]
Synonyms	MKNK2; MAP kinase interacting serine/threonine kinase 2; MNK2; GPRK7; MAP kinase-interacting serine/threonine kinase 2; G protein-coupled receptor kinase 7; Putative map kinase interacting kinase; EC 2.7.11.1; MAP kinase signal-integrating kinase 2; Mnk2
Gene ID	2872
mRNA Refseq	NM_017572
Protein Refseq	NP_060042
MIM	5069
UniProt ID	Q9HBH9
Chromosome Location	19p13.3
Pathway	Insulin signaling pathway; MAPK signaling pathway
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity; zinc ion binding

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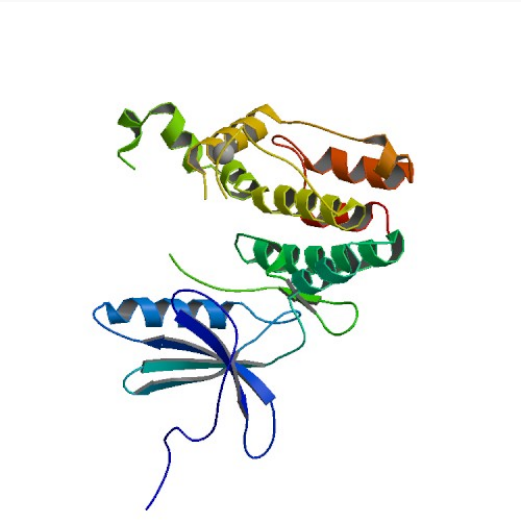
PDB rendering based on 2ac3.	

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