

Recombinant Human MKNK2, GST-tagged, Active

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

SPECIFICATION

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| Product Overview | Recombinant full-length human MNK2 was expressed by baculovirus in <i>Sf9</i> 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°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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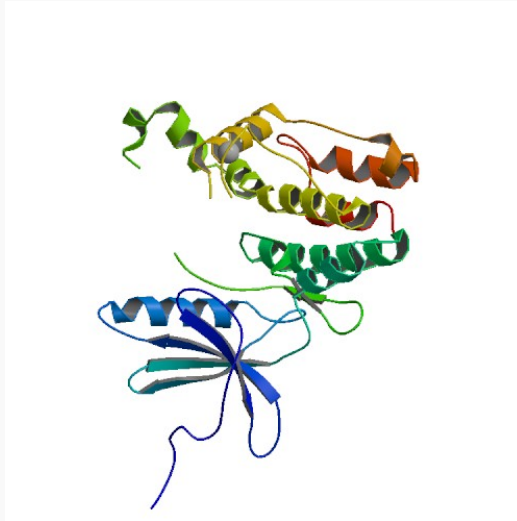
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|----------------------------|--|
| Gene Name | MKNK2 MAP kinase interacting serine/threonine kinase 2 [Homo sapiens] |
| Synonyms | MKNK2; MAP kinase interacting serine/threonine kinase 2; MNK2; GPRK7; MAP kinase-interacting serine/threonine kinase 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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