

## Recombinant Human MKNK2, GST-tagged, Active

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

### SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Recombinant full-length human MNK2 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag. MW = 74 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>           | 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). |
| <b>Sequence</b>              | Full-length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>          | Kinase Assay, Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage And Stability</b> | 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

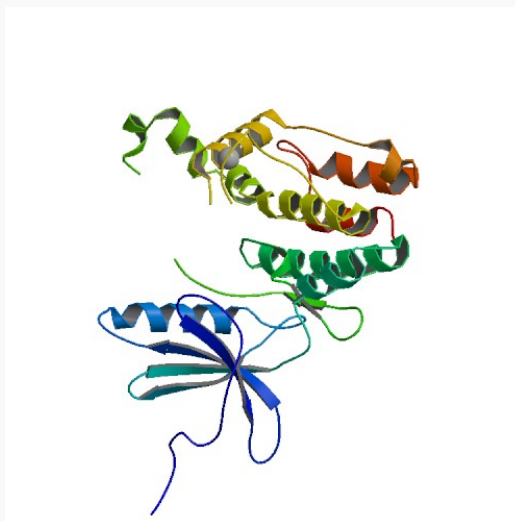
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|                            |                                                                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | MKNK2 MAP kinase interacting serine/threonine kinase 2 [ Homo sapiens ]                                                                                                                                                                                        |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 2872                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_017572                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_060042                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | 5069                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>          | Q9HBH9                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 19p13.3                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Insulin signaling pathway; MAPK signaling pathway                                                                                                                                                                                                              |
| <b>Function</b>            | ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity; zinc ion binding                                                                                                      |

PDB rendering based  
on 2ac3.



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