# Recombinant Human MAPK14, GST-tagged, Active

**Cat. No.** MAPK14-372H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant full-length human MAPK14 was expressed by *baculovirus* in *Sf9 insect cells* using an N-terminal GST tag. MW=67 kDa. |
| **Species** | Human |
| **Source** | Sf9 Cells |
| **Description** | P38α (SAPK2A) is a member of the p38 MAPK family which are activated by various environmental stresses and proinflammatory cytokines. The activation of p38 requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of p38 include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. |
| **Sequence** | Full-length. |
| **Applications** | Kinase Assay, Western Blot. |
| **Storage And Stability** | Store product at –70oC. 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** | MAPK14 mitogen-activated protein kinase 14 [ Homo sapiens ] |
| **Synonyms** | MAPK14; mitogen-activated protein kinase 14; RK; p38; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; p38ALPHA; p38 MAP kinase; p38alpha Exip; MAP kinase Mxi2; Csaids binding protein; MAX-interacting protein 2; stress-activated protein kinase 2A; p38 mitogen activated protein kinase; cytokine suppressive anti-inflammatory drug binding protein; EC 2.7.11.24; Mitogen-activated protein kinase p38 alpha; CSAID-binding protein MAP kinase p38 alpha; MAP kinase MXI2; CSBP; MXI2 |
| **Gene ID** | 1432 |
| **mRNA Refseq** | NM_001315 |
| **Protein Refseq** | NP_001306 |
| **MIM** | 600289 |
| **UniProt ID** | Q16539 |
| **Chromosome Location** | 6p21.3-p21.2 |
| **Pathway** | Amyotrophic lateral sclerosis (ALS); Epithelial cell signaling in Helicobacter pylori infection; Fc epsilon RI signaling pathway; GnRH signaling pathway; Leukocyte transendothelial migration; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like receptor signaling pathway; VEGF signaling pathway; Signalling by NGF |
| **Function** | ATP binding; MAP kinase activity; MAP kinase kinase activity; MP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein |

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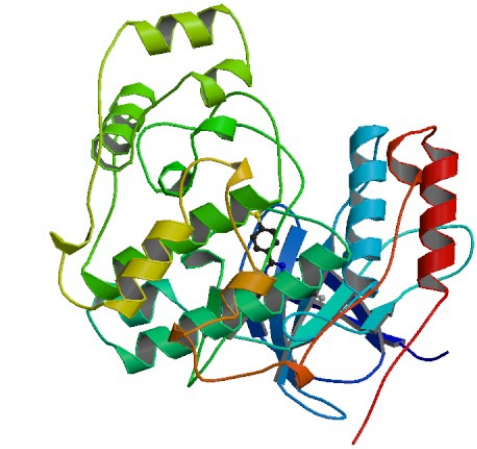
| | serine/threonine kinase activity; transferase activity |
| **PDB rendering based on 1a9u.** |  |

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