

# Recombinant Human Mitogen-Activated Protein Kinase 10, GST-tagged

**Cat. No.** MAPK10-1044H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human MAPK10 was expressed in E. coli cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	MAPK10 is a member of the c-Jun N-terminal kinases (JNKs) which are part of the mitogen-activated protein (MAP) kinase family, and regulate signal transduction in response to environmental stress. MAPK10 phosphorylates various transcription factors such as ATF2, Elk-1 and members of the Jun family. Activation and nuclear localization of MAPK10, a neuronal-specific isoform of JNK, has been associated with hypoxic and ischemic damage of CA1 neurons in the hippocampus. Knockout mice lacking MAPK10 showed reduced apoptosis of hippocampal neurons and reduced seizure induced by kainic acid, a glutamate-receptor agonist.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	71 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.1 mM EGTA, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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<b>Purity</b>	> 75 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</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.
<b>Pathways</b>	Adipocytokine signaling pathway; Colorectal cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal adhesion; GnRH signaling pathway; Insulin signaling pathway; MAPK signaling pathway; NOD-like receptor signaling pathway; Neurotrophin signaling pathway; Pancreatic cancer; Pathways in cancer; Progesterone-mediated oocyte maturationType II diabetes mellitus; Wnt signaling pathway

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MAPK10 mitogen-activated protein kinase 10 [ Homo sapiens ]</a>
<b>Official Symbol</b>	MAPK10
<b>Synonyms</b>	MAPK10; mitogen-activated protein kinase 10; JNK3; JNK3A; PRKM10; p493F12; FLJ12099; FLJ33785; MGC50974; p54bSAPK; MAP kinase; JNK3 alpha protein kinase; c-Jun N-terminal kinase 3; stress activated protein kinase beta; EC 2.7.11.24; MAP kinase p49 3F12; c-Jun kinase 3; OTHUMP00000161180; OTTHUMP00000161183; OTTHUMP00000161182
<b>Gene ID</b>	<a href="#">5602</a>

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mRNA Refseq [NM\\_002753](#)

Protein Refseq [NP\\_002744](#)

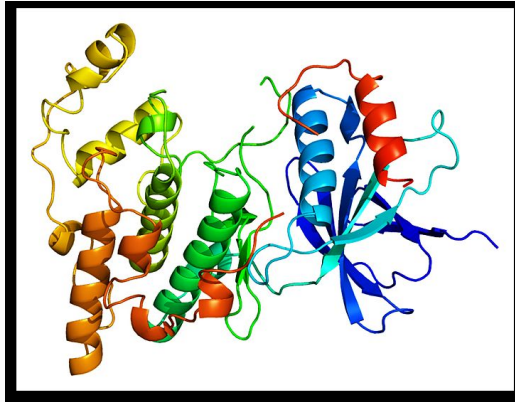
MIM [602897](#)

UniProt ID [P53779](#)

Chromosome  
Location [4q22.1-q23](#)

Function [ATP binding](#); [JUN kinase activity](#); [MAP kinase activity](#); [kinase activity](#); [nucleotide binding](#); [protein binding](#); [protein kinase activity](#); [protein serine/threonine kinase activity](#); [transferase activity](#)

PDB rendering  
based on [1jnk](#).



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