

# Recombinant Human Mitogen-activated Protein Kinase 10

Cat. No. MAPK10-752H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human Human Mitogen-activated Protein Kinase 10 Amino acidsM1-R428, is expressed in <i>E.coli</i> .
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-428 a.a.
<b>Description</b>	JNK3 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. JNK3 phosphorylates various transcription factors such as ATF2, Elk-1 and members of the Jun family. Activation and nuclear localization of JNK3, a neuronal-specific isoform of JNK, has been associated with hypoxic and ischemic damage of CA1 neurons in the hippocampus.
<b>Purification</b>	Immobilized Metal Affinity Chromatography.
<b>Product Identity</b>	JNK3 was confirmed as JNK3 by mass spectroscopy LC-ESI-MS/MS.
<b>MW</b>	48,060 Da.
<b>Storage Buffer</b>	50 mM Tris-HCl, pH 7.5; 100 mM NaCl, 5 mM DTT, 20% glycerol.
<b>Concentration</b>	0.211 µg/µl.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Specific Activity** 118 pmol/μg×min.

**Storage** -80°C. Avoid repeated freeze-thaw cycles!

## GENE INFORMATION

**Gene Name** [MAPK10 mitogen-activated protein kinase 10 \[ Homo sapiens \]](#)

**Synonyms** MAPK10; mitogen-activated protein kinase 10; JNK3; JNK3A; PRKM10; p493F12; FLJ12099; FLJ33785; MGC50974; p54bSAPK; MAP kinase; OTTHUMP00000161180; OTTHUMP00000161183; JNK3 alpha protein kinase; c-Jun N-terminal kinase 3; stress activated protein kinase beta; EC 2.7.11.24; MAP kinase p49 3F12; OTTHUMP00000161182; c-Jun kinase 3

**Gene ID** [5602](#)

**mRNA Refseq** [NM\\_002753](#)

**Protein Refseq** [NP\\_002744](#)

**MIM** [602897](#)

**UniProt ID** [P53779](#)

**Chromosome Location** 4q22.1-q23

**Pathway** 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;

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Progesterone-mediated oocyte maturation; RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway; Type II diabetes mellitus; Wnt signaling pathway

**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

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