

# Recombinant Mouse Mitogen-Activated Protein Kinase 8, GST-Tagged

**Cat. No.** Mapk8-1051M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length mouse JNK1 was expressed in E. coli cells using an N-terminal GST tag.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Mapk8 is a member of the MAP kinase group that is activated by dual phosphorylation at thr and tyr residues during exposure to stress such as UV irradiation. Mapk8 binds to the c-Jun transactivation domain and phosphorylates it on Ser-63 and Ser-73. Mapk8 has been shown to play an important role in disease processes. Activation of Mapk8 results in defects in myotube viability and integrity leading to dystrophic myofiber destruction. Mapk8 activity is also abnormally elevated in obesity and removal of Mapk8 results in decreased adiposity and significantly improved insulin sensitivity.
<b>Applications</b>	Kinase Assay, Western Blot
<b>Molecular Weight</b>	70 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, 0.25 mM DTT, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol.

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<b>Purity</b>	> 90 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<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 maturation; RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway; Type II diabetes mellitus; Wnt signaling pathway

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Mapk8 mitogen-activated protein kinase 8 [ Mus musculus ]</a>
<b>Official Symbol</b>	Mapk8
<b>Synonyms</b>	Mapk8; mitogen-activated protein kinase 8; JNK; JNK1; Prkm8; SAPK1; A1849689; c-Jun N-terminal kinase; JNK1 beta1 protein kinase; mitogen activated protein kinase 8; protein kinase mitogen-activated 8; EC 2.7.11.24; OTTMUSP00000019790
<b>Gene ID</b>	<a href="#">26419</a>
<b>mRNA Refseq</b>	<a href="#">NM_016700</a>

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<b>Protein Refseq</b>	NP_057909
<b>UniProt ID</b>	Q91Y86
<b>Chromosome Location</b>	14 B
<b>Function</b>	ATP binding; JUN kinase activity; MAP kinase activity; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity
<b>PDB rendering based on 1jnk.</b>	

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