

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

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

SPECIFICATION

Product Overview	Recombinant full-length mouse JNK1 was expressed in E. coli cells using an N-terminal GST tag.
Species	Mouse
Source	E.coli
Description	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.
Applications	Kinase Assay, Western Blot
Molecular Weight	70 kDa
Expression System	E. coli
Form	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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Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	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.
Pathways	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

Gene Name	Mapk8 mitogen-activated protein kinase 8 [Mus musculus]
Official Symbol	Mapk8
Synonyms	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
Gene ID	26419
mRNA Refseq	NM_016700

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Protein Refseq	NP_057909
UniProt ID	Q91Y86
Chromosome Location	14 B
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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