

Recombinant Mouse Mapk8, GST-tagged, Active

Cat. No. Mapk8-338M(Mouse) Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse JNK1 was expressed by baculovirus in <i>Sf9 insect cell</i> using a N-terminal GST tag. MW = 71 kDa.
Species	Mouse
Source	Sf9 Cells
Description	<p>JNK1 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. JNK1 binds to the c-Jun transactivation domain and phosphorylates it on Ser-63 and Ser-73.</p> <p>JNK1 has been shown to play an important role in disease processes. Activation of JNK1 results in defects in myotube viability and integrity leading to dystrophic myofiber destruction. JNK1 activity is also abnormally elevated in obesity and removal of JNK1 results in decreased adiposity and significantly improved insulin sensitivity.</p>
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	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.

GENE INFORMATION

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Gene Name	Mapk8 mitogen-activated protein kinase 8 [<i>Mus musculus</i>]
Synonyms	Mapk8; mitogen-activated protein kinase 8; JNK; JNK1; Prkm8; SAPK1; AI849689; c-Jun N-terminal kinase; OTTMUSP00000019790; JNK1 beta1 protein kinase; mitogen activated protein kinase 8; protein kinase mitogen-activated 8; EC 2.7.11.24
Gene ID	26419
mRNA Refseq	NM_016700
Protein Refseq	NP_057909
UniProt ID	Q91Y86
Chromosome Location	14 B
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; 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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PDB rendering based
on 1jnk.



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