

Active Recombinant Full Length Mouse Mapk8 Protein, GST tagged

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

SPECIFICATION

Product Overview	Recombinant full-length mouse JNK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Insect Cells
ProteinLength	1-464 aa
Description	Enables JUN kinase activity and protein serine/threonine/tyrosine kinase activity. Involved in several processes, including generation of neurons; integrin-mediated signaling pathway; and positive regulation of protein metabolic process. Acts upstream of or within several processes, including cellular response to nitric oxide; positive regulation of determination of dorsal identity; and protein phosphorylation. Located in several cellular components, including basal dendrite; mitochondrion; and podosome. Is active in Schaffer collateral - CA1 synapse and cytoplasm. Is expressed in several structures, including alimentary system; genitourinary system; nervous system; sensory organ; and skin. Human ortholog(s) of this gene implicated in abdominal aortic aneurysm; chronic mucocutaneous candidiasis; colorectal adenoma; rectal benign neoplasm; and type 2 diabetes mellitus. Orthologous to human MAPK8 (mitogen-activated protein kinase 8).
Molecular Mass	70 kDa

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Bio-activity	105 nmol/min/mg
Purity	The purity of JNK1 was determined to be >90% by densitometry.
Stability	One year at –70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. 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.
Storage Buffer	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1 µg/µL
Shipping	Dry ice

GENE INFORMATION

Gene Name	Mapk8 mitogen-activated protein kinase 8 [Mus musculus (house mouse)]
Official Symbol	Mapk8
Synonyms	Mapk8; mitogen-activated protein kinase 8; JNK; JNK1; Prkm8; SAPK1; mitogen-activated protein kinase 8; JNK1 beta1 protein kinase; MAP kinase 8; MAPK 8; c-Jun N-terminal kinase 1; protein kinase mitogen-activated 8; stress-activated protein kinase JNK1; EC 2.7.11.24
Gene ID	26419
mRNA Refseq	NM_016700

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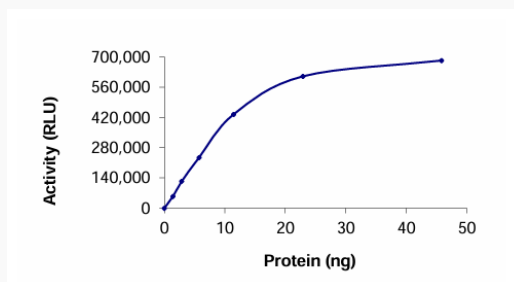
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Protein Refseq NP_057909

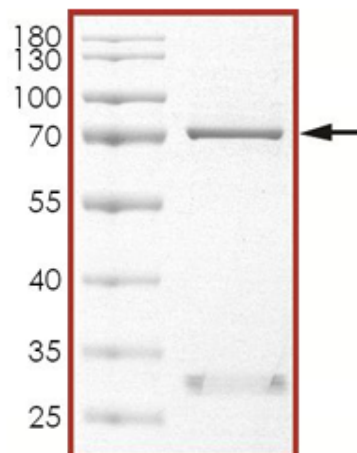
UniProt ID Q61831

Activity



The specific activity of JNK1 was determined to be 105 nmol/min/mg as per activity assay protocol.

Purity



The purity of JNK1 was determined to be >90% by densitometry. Approx. MW 70 kDa.

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