

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

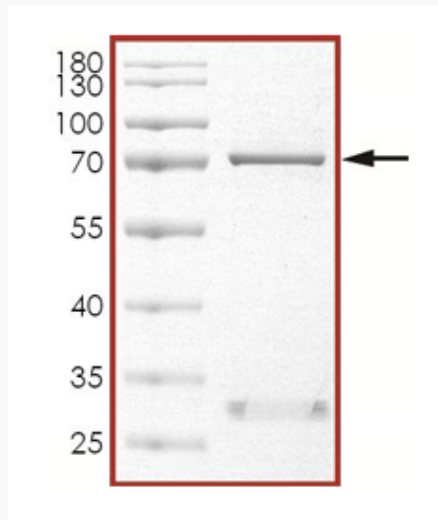
Gene Name	Mapk8 mitogen-activated protein kinase 8 [Mus musculus (house mouse)]
Official Symbol	Mapk8
Synonyms	Mapk8; mitogen-activated protein kinase 8; JNK; JNK1; Prkm8; SAPK1; mitogen-activated protein kinase 8; JNK1 beta1 protein kinase; MAP kinase 8; MAPK 8; c-Jun N-terminal kinase 1; protein kinase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

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Protein Refseq NP_057909

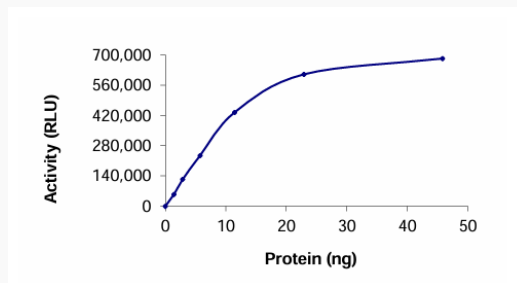
UniProt ID Q61831

Purity



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

Activity



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

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