

## Active Recombinant Full Length Mouse Mapk8 Protein, GST tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant full-length mouse JNK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 1-464 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>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).</p> |
| <b>Molecular Mass</b>   | 70 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bio-activity</b>   | 105 nmol/min/mg                                                                                                                                                                                                                                  |
| <b>Purity</b>         | The purity of JNK1 was determined to be >90% by densitometry.                                                                                                                                                                                    |
| <b>Stability</b>      | One year at –70 centigrade from date of shipment.                                                                                                                                                                                                |
| <b>Storage</b>        | 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. |
| <b>Storage Buffer</b> | 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.                                                                                                             |
| <b>Concentration</b>  | 0.1 µg/µL                                                                                                                                                                                                                                        |
| <b>Shipping</b>       | Dry ice                                                                                                                                                                                                                                          |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Mapk8 mitogen-activated protein kinase 8 [ Mus musculus (house mouse) ]                                                                                                                                                                                                    |
| <b>Official Symbol</b> | Mapk8                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 26419                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_016700                                                                                                                                                                                                                                                                  |

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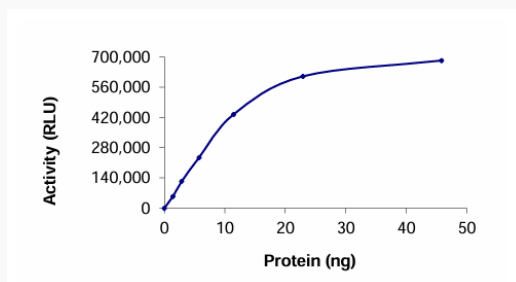
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**Protein Refseq** NP\_057909

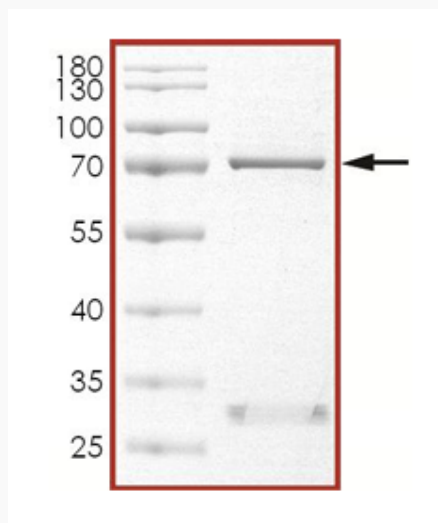
**UniProt ID** Q61831

### 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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