

Bioactive

# MAPK8 (Human) Recombinant Protein

Catalog # P6507

Size 5 ug

## Applications

### Result of activity analysis

Result of activity analysis

## Specification

<b>Product Description</b>	Human MAPK8 (NP_620634.1, 2 a.a. - 364 a.a.) partial recombinant protein with GST-tag at N-terminal using <i>E.coli</i> expression system and activated with His-tag MAP2K4 and MAP2K7.
<b>Host</b>	Viruses
<b>Form</b>	Liquid
<b>Preparation Method</b>	E.coli expression system.
<b>Purification</b>	Glutathione sepharose chromatography.
<b>Purity</b>	0.95
<b>Activity</b>	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescently-labeled substrate and Mg (or Mn)/ATP. Substrate: Modified Erktide, ATP: 100 uM.
<b>Quality Control Testing</b>	The purity was assessed by SDS-PAGE/CBB staining.
<b>Storage Buffer</b>	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
<b>Storage Instruction</b>	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Result of activity analysis  
Result of activity analysis

## Applications

- Functional Study

## Gene Info — MAPK8

Entrez GeneID [5599](#)

Protein Accession# [NP\\_620634.1](#)

Gene Name MAPK8

Gene Alias JNK, JNK1, JNK1A2, JNK21B1/2, PRKM8, SAPK1

Gene Description mitogen-activated protein kinase 8

Omim ID [601158](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrome c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

**Other Designations**

JNK1 alpha protein kinase|JNK1 beta protein kinase|JUN N-terminal kinase|OTTHUMP00000019552|OTTHUMP00000019555|OTTHUMP00000019556|OTTHUMP00000019558|c-Jun N-terminal kinase 1|mitogen-activated protein kinase 8 isoform JNK1 alpha1|mitogen-activated protein

## Pathway

- [Adipocytokine signaling pathway](#)
- [Colorectal cancer](#)

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Focal adhesion](#)
- [GnRH signaling pathway](#)
- [Insulin signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)
- [Wnt signaling pathway](#)

## Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)