Bioactive

MAPK9 (Human) Recombinant Protein

Catalog # P6508 Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human MAPK9 (NP_002743.3, 1 a.a. - 364 a.a.) partial recombinant protein with GST-tag at N-terminal using *E.coli* expression system and activated with His-tag MAP2K4 and MAP2K7.
Host	Viruses
Form	Liquid
Preparation Method	E.coli expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.97
Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. Substrate: Modified Erktide, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	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 — MAPK9

Entrez GeneID	5601
Protein Accession#	NP_002743.3
Gene Name	MAPK9
Gene Alias	JNK-55, JNK2, JNK2A, JNK2ALPHA, JNK2B, JNK2BETA, PRKM9, SAPK, p54a, p54aSAPK
Gene Description	mitogen-activated protein kinase 9
Omim ID	602896
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 targets specific transcription factors, and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV radiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this gene's mouse counterpart suggest a key role in T-cell differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq
Other Designations	Jun kinase|MAP kinase 9|c-Jun N-terminal kinase 2|c-Jun kinase 2|mitogen-activated protein kinase 9 isoform JNK2 alpha2|stress-activated protein kinase JNK2

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
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Wnt signaling pathway

Disease

- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease
- HIV Infections
- Tobacco Use Disorder