

Bioactive

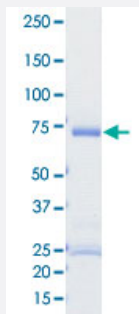
Full-Length

MAP2K4 (Human) Recombinant Protein

Catalog # P5585

Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

□

Specification

Product Description	Human MAP2K4 (NP_003001.1, 1 a.a. - 399 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	71
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	66 % by SDS-PAGE/CBB staining

Activity	The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione-coated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG (or HRP-labeled anti-mouse IgG). Substrate: JNK1 [inactive mutant]. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.1% CHAPS, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — MAP2K4

Entrez GeneID	6416
Protein Accession#	NP_003001.1
Gene Name	MAP2K4
Gene Alias	JNKK, JNKK1, MAPKK4, MEK4, MKK4, PRKMK4, SEK1, SERK1
Gene Description	mitogen-activated protein kinase kinase 4
Omim ID	601335
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a dual specificity protein kinase that belongs to the Ser/Thr protein kinase family. This kinase is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. It has been shown to activate MAPK8/JNK1, MAPK9/JNK2, and MAPK14/p38, but not MAPK1/ERK2 or MAPK3/ERK3. This kinase is phosphorylated, and thus activated by MAP3K1/MEKK. The knockout studies in mice suggested the roles of this kinase in mediating survival signal in T cell development, as well as in the organogenesis of liver. [provided by RefSeq]

Other Designations

JNK activating kinase 1|JNK-activated kinase 1|MAP kinase kinase 4|MAPK/ERK kinase 4|SAP K/ERK kinase 1|c-Jun N-terminal kinase kinase 1|dual specificity mitogen-activated protein kinase 4

Pathway

- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)