

## MAP4K6 Protein, Human (Sf9, GST)

Cat. No.:	HY-P701801
Synonyms:	MINK1; Misshapen-like kinase 1; GCK family kinase MiNK; MAPK/ERK kinase kinase kinase 6; MEK kinase kinase 6; MEKKK 6; Misshapen/NIK-related kinase; Mitogen-activated protein kinase kinase kinase 6
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8N4C8 (M1-G314)
Gene ID:	50488
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	MAP4K6, a serine/threonine kinase, serves as a crucial negative regulator in Ras-related Rap2-mediated signal transduction, exerting control over neuronal structure and AMPA receptor trafficking. Its significance is underscored by its essential role in regulating synaptic density, dendrite complexity, and surface AMPA receptor expression in hippocampal neurons. MAP4K6 exhibits the capacity to activate the JNK and MAPK14/p38 pathways, mediating stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. It phosphorylates TANC1 upon stimulation by RAP2A, as well as MBP and SMAD1. Furthermore, MAP4K6 plays a pivotal role in the negative selection of thymocytes, potentially by facilitating the coupling of NCK1 to the activation of JNK1. Notably, isoform 4 of MAP4K6 can independently activate the JNK pathway. In addition to its diverse roles in cellular processes, MAP4K6 is intricately involved in the regulation of actin cytoskeleton reorganization, cell-matrix adhesion, cell-cell adhesion, and cell migration, highlighting its multifaceted impact on cellular dynamics.
------------	--

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA