

## MKNK1 Protein, Human (Sf9, GST)

Cat. No.:	HY-P701813
Synonyms:	MKNK1; MAP kinase-interacting serine/threonine-protein kinase 1; MAP kinase signal-integrating kinase 1; MAPK signal-integrating kinase 1; Mnk1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9BUB5 (M1-L424)
Gene ID:	8569
Molecular Weight:	Approximately 73.9 kDa

### PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 150 mM NaCl, 10% glycerol, 0.05% Brij, 1 mM DTT.
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	MKNK1 (MAP Kinase Interacting Serine/Threonine Kinase 1) emerges as a pivotal player in orchestrating cellular responses to environmental stress and cytokines. Its regulatory influence extends to translation processes, where it exerts control by phosphorylating EIF4E. This phosphorylation event enhances the affinity of EIF4E for the 7-methylguanosine-containing mRNA cap, elucidating MKNK1's role in fine-tuning translation machinery in response to diverse cellular stimuli.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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