

MKKNK2 Protein, Human (His)

Cat. No.:	HY-P701815
Synonyms:	MKKNK2; MAP kinase-interacting serine/threonine-protein kinase 2; MAP kinase signal-integrating kinase 2; MAPK signal-integrating kinase 2; Mnk2
Species:	Human
Source:	E. coli
Accession:	Q9HBH9 (T72-R385)
Gene ID:	2872
Molecular Weight:	37.4 kD

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	MKKNK2, a serine/threonine-protein kinase, plays a pivotal role in cellular processes by phosphorylating SFPO/PSF, HNRNPA1, and EIF4E. Positioned at the intersection of environmental stress and cytokine signaling, MKKNK2 is implicated in the modulation of translation through the phosphorylation of EIF4E. This phosphorylation enhances EIF4E's affinity for the 7-methylguanosine-containing mRNA cap, thereby influencing the translational machinery. Moreover, MKKNK2 is essential for mediating EIF4E shuttling from the cytoplasm to the nucleus. Notably, isoform 1 exhibits high basal kinase activity, while isoform 2 displays significantly lower kinase activity. MKKNK2 serves as a key mediator in the suppressive effects of IFNγ on hematopoiesis and acts as a negative regulator in signaling pathways governing arsenic trioxide As ₂ O ₃ -induced apoptosis and anti-leukemic responses. Additionally, MKKNK2 is intricately involved in anti-apoptotic signaling triggered by serum withdrawal.
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Caution: Product has not been fully validated for medical applications. For research use only.

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