

ERK3 Protein, Human (His)

Cat. No.:	HY-P701680
Synonyms:	MAPK6; Mitogen-activated protein kinase 6; MAP kinase 6; MAPK 6; Extracellular signal-regulated kinase 3; ERK-3; MAP kinase isoform p97; p97-MAPK
Species:	Human
Source:	E. coli
Accession:	Q16659 (M9-I327)
Gene ID:	5597
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	ERK3, an atypical MAPK protein, exhibits the capacity to phosphorylate microtubule-associated protein 2 (MAP2) and MAPKAPK5. The intricacies of the complex formed with MAPKAPK5 are still under scrutiny, but a series of phosphorylation events unfolds within this interaction. Upon binding with atypical MAPKAPK5, ERK3/MAPK6 undergoes phosphorylation at Ser-189, subsequently facilitating the phosphorylation and activation of MAPKAPK5. In turn, activated MAPKAPK5 reciprocally phosphorylates ERK3/MAPK6. The precise functional implications of this complex interplay remain elusive, although it may play a role in promoting entry into the cell cycle.
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Caution: Product has not been fully validated for medical applications. For research use only.

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