MAPK4 Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701803
Synonyms:	MAPK4; Mitogen-activated protein kinase 4; MAP kinase 4; MAPK 4; Extracellular signal-regulated kinase 4; ERK-4; MAP kinase isoform p63; p63-MAPK
Species:	Human
Source:	Sf9 insect cells
Accession:	P31152 (A2-W587)
Gene ID:	5596
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.
Reconsititution	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, displays distinct kinase activity by phosphorylating microtubule-associated protein 2 (MAP2) and MAPKAPK5. The functional significance of the complex formed with MAPKAPK5 is not fully elucidated, but it involves a intricate series of phosphorylation events. Upon interaction with the atypical MAPKAPK5, ERK3/MAPK6 undergoes phosphorylation at Ser-189 and subsequently facilitates the phosphorylation and activation of MAPKAPK5. Intriguingly, MAPKAPK5 reciprocally phosphorylates ERK3/MAPK6. The specific role of this interplay in cellular processes remains unclear, although it is suggested that ERK3 may play a role in promoting entry into the cell cycle.

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