

PRAK/MAPKAPK5 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P74621
Synonyms:	MAP kinase-activated protein kinase 5; MAPKAP-K5; MK5; PRAK
Species:	Human
Source:	Sf9 insect cells
Accession:	Q8IW41-2/NP_003659.2 (M1-Q471)
Gene ID:	8550
Molecular Weight:	Approximately 35-45 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
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

The PRAK/MAPKAPK5 Protein, belonging to the serine/threonine kinase family, functions as a tumor suppressor and responds to cellular stress and proinflammatory cytokines by getting activated through phosphorylation by MAP kinases, including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. While initially located in the nucleus, upon phosphorylation and activation, it translocates to the cytoplasm. A notable target of this kinase is the heat shock protein HSP27, phosphorylating it at physiologically relevant sites. This gene displays two alternatively spliced transcript variants encoding distinct isoforms. PRAK/MAPKAPK5 exhibits ubiquitous expression, with discernible levels in the small intestine (RPKM 3.1), colon (RPKM 2.9), and 25 other tissues, emphasizing its widespread involvement in diverse physiological contexts across multiple organs.

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

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