

PRAK/MAPKAPK5 Protein, Human, Recombinant (Strep-II)

General Information

Synonyms:	MAPKAPK5;MK5;MAPKAP-K5;MK-5;MAPKAPK-5
Protein Construction:	Met1-Gln471
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q8IW41-2
Molecular Weight:	55.57 kDa (predicted). Due to glycosylation, the protein migrates to 35-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in 20 mM Tris, 150 mM NaCl, 2 mM CaCl ₂ (pH 8.0).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The p38 mitogen-activated protein kinase (MAPK) pathway plays an important role in cellular responses to inflammatory stimuli and environmental stress. p38 regulated/activated protein kinase (PRAK, also known as mitogen-activated protein kinase activated protein kinase 5 [MAPKAPK5]) functions downstream of p38alpha and p38beta in mediating the signaling of the p38 pathway.

Reference

New L, et al. Regulation of PRAK subcellular location by p38 MAP kinases. Mol Biol Cell. 2003 Jun;14(6):2603-16. doi: 10.1091/mbc.e02-08-0538. Epub 2003 Mar 20. PMID: 12808055; PMCID: PMC194907.

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