

# Active Recombinant Rat Mitogen Activated Protein Kinase Kinase Kinase 1

Cat. No. Map3k1-665R Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Mitogen Activated Protein Kinase Kinase Kinase 1 is produced in <i>Escherichia coli</i> . MW= 42 kDa.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>Description</b>	MAP kinase is a serine/threonine kinase that is activated by MEK through a phosphorylation cascade. The cascade starts with extracellular signals transmitted by growth factor-regulated receptor tyrosine kinases or G-protein coupled receptors. Dually phosphorylated (Thr and Tyr) MAP kinase translocates from the cytoplasm to the nucleus, where it phosphorylates protein transcription factors, transducing extracellular signals into genomic responses, proliferation or differentiation.
<b>Purity</b>	≥95% (SDS-PAGE).
<b>Unit Definition</b>	One unit of activated MAP kinase will transfer 1 nmole of phosphate from ATP to myelin basic protein per min at 30 °C.
<b>Physical Form</b>	Solution in 20 mM Tris, pH 7.5, 150 mM NaCl, 1 mM EGTA, 10% glycerol, 1 mM DTT, and 0.03% Brij.
<b>Form</b>	Buffered aqueous glycerol solution.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Activity</b>	≥500 units/mg.
<b>Legal Information</b>	Brij is a registered trademark of Croda International PLC.
<b>Storage</b>	-70°C. Shipped in dry ice.

## GENE INFORMATION

<b>Gene Name</b>	Map3k1 mitogen activated protein kinase kinase kinase 1 [ Rattus norvegicus ]
<b>Synonyms</b>	Map3k1; mitogen activated protein kinase kinase kinase 1; Mekk1; mitogen activated protein kinase kinase kinase 1; MEK kinase 1; mitogen-activated protein kinase kinase kinase 1; MAPK/ERK kinase kinase 1; EC 2.7.11.25
<b>Gene ID</b>	116667
<b>mRNA Refseq</b>	NM_053887
<b>Protein Refseq</b>	NP_446339
<b>UniProt ID</b>	Q62925
<b>Chromosome Location</b>	2q14
<b>Pathway</b>	GnRH signaling pathway; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-like receptor signaling pathway; Ubiquitin mediated proteolysis
<b>Function</b>	ATP binding; JUN kinase binding; JUN kinase kinase kinase activity; MAP kinase kinase kinase activity; identical protein binding; mitogen-activated protein kinase kinase binding; protein binding; protein kinase activity; protein serine/threonine kinase

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activity; transferase activity; ubiquitin-protein ligase activity; zinc ion binding

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