

Active Recombinant Rat Mitogen Activated Protein Kinase Kinase Kinase 1

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

SPECIFICATION

Product Overview	Recombinant Rat Mitogen Activated Protein Kinase Kinase Kinase 1 is produced in <i>Escherichia coli</i> . MW= 42 kDa.
Species	Rat
Source	E.coli
Description	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.
Purity	≥95% (SDS-PAGE).
Unit Definition	One unit of activated MAP kinase will transfer 1 nmole of phosphate from ATP to myelin basic protein per min at 30 °C.
Physical Form	Solution in 20 mM Tris, pH 7.5, 150 mM NaCl, 1 mM EGTA, 10% glycerol, 1 mM DTT, and 0.03% Brij.
Form	Buffered aqueous glycerol solution.

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Activity	≥500 units/mg.
Legal Information	Brij is a registered trademark of Croda International PLC.
Storage	–70°C. Shipped in dry ice.
GENE INFORMATION	
Gene Name	Map3k1 mitogen activated protein kinase kinase kinase 1 [Rattus norvegicus]
Synonyms	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
Gene ID	116667
mRNA Refseq	NM_053887
Protein Refseq	NP_446339
UniProt ID	Q62925
Chromosome Location	2q14
Pathway	GnRH signaling pathway; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-like receptor signaling pathway; Ubiquitin mediated proteolysis
Function	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