Recombinant Human MAP3K3

Cat. No. MAP3K3-30192TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human MEKK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal proprietary tag.
Species	Human
Description	This gene product is a 626-amino acid polypeptide that is 96.5% identical to mouse Mekk3. Its catalytic domain is closely related to those of several other kinases, including mouse Mekk2, tobacco NPK, and yeast Ste11. Northern blot analysis revealed a 4.6-kb transcript that appears to be ubiquitously expressed. This protein directly regulates the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by activating SEK and MEK1/2 respectively; it does not regulate the p38 pathway. In cotransfection assays, it enhanced transcription from a nuclear factor kappa-B (NFKB)-dependent reporter gene, consistent with a role in the SAPK pathway. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
Biological activity	Specific activity: 20nmol/min/mg.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.Contains 1 OPR domain.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	MAP3K3 mitogen-activated protein kinase kinase kinase 3 [Homo sapiens]
Official Symbol	MAP3K3
Synonyms	MAP3K3; mitogen-activated protein kinase kinase kinase 3; MEKK3; MAP/ERK kinase kinase 3; MAPK/ERK kinase kinase 3; MAPKKK3;
Gene ID	4215
mRNA Refseq	NM_002401
Protein Refseq	NP_002392
MIM	602539
Uniprot ID	Q99759
Chromosome Location	17q
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; GnRH signaling pathway, organism-specific biosystem; GnRH signaling pathway, conserved biosystem; HTLV-I infection, organism-specific biosystem;

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Function	ATP binding; MAP kinase kinase kinase activity; metal ion binding; nucleotide binding; protein binding;

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