

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: None Constituents: 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.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

**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;

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



Function

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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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