

Recombinant Human MAP3K3, GST-tagged, Active

Cat. No. MAP3K3-352H **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 GST tag. MW = 105 kDa.
Species	Human
Source	Sf9 Cells
Description	MEKK3 is a member of the MEKK family of protein kinases that directly regulate SAPK and ERK pathway but not the p38 pathway. MEKK3 modulates SAPK and ERK activity by activating the upstream targets SEK and MEK1/2, respectively. KSR2 can regulate the activity of MEKK3 and can reduce MEKK3-mediated ERK activation. Knockout of the MEKK3 gene in mice leads to disruption of blood vessel development and the structural integrity of the yolk sac. The blockage of angiogenesis in these mice is not a result of decreased VEGF1 expression but rather due to an intrinsic defect in Mekk3 ^{-/-} endothelial cells. Thus, MEKK3 is necessary for blood vessel development and may be a possible target for drugs that control angiogenesis.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

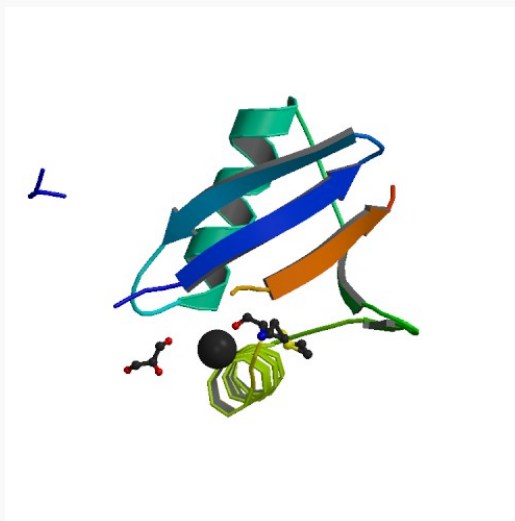
Gene Name	MAP3K3 mitogen-activated protein kinase kinase kinase 3 [Homo sapiens]
Synonyms	MAP3K3; mitogen-activated protein kinase kinase kinase 3; MEKK3; MAPKKK3; MAP/ERK kinase kinase 3; MAPK/ERK kinase kinase 3; EC 2.7.11.25; MEK kinase 3; MEKK 3
Gene ID	4215
mRNA Refseq	NM_002401
Protein Refseq	NP_002392
MIM	602539
UniProt ID	Q99759
Chromosome Location	17q23.3
Pathway	GnRH signaling pathway; MAPK signaling pathway; Neurotrophin signaling pathway
Function	ATP binding; MAP kinase kinase kinase activity; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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