

Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase 8, GST-tagged

Cat. No. MAP3K8-988H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP3K8 (30-397) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	30-397 a.a.
Description	MAP3K8 is an oncogene that can activate both the MAP kinase and JNK kinase pathways. MAP3K8 activates IκB kinases and induces the nuclear production of NF-κB. C-terminal catalytic domain of KSR2 associates with MAP3K8 and KSR2 can negatively regulates the kinase activity of MAP3K8 in vitro. Co-transfection of KSR2 with MAP3K8 in cells leads to reduced MAP3K8-mediated ERK activation and MAP3K8-induced IL8 production in a dose-dependent manner. MAP3K8 is one of the MAP kinase kinase kinases that regulates the ERK1/ERK2 pathway in response to IL-1. Blockage of expression of MAP3K8 results in failure of IL-1 to induce an increase in IL-8 and MIP-1β mRNA levels.
Applications	Kinase Assay; Western Blot
Molecular Weight	70 kDa
Expression System	Sf9 insect cells using baculovirus

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Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25 % glycerol.
Purity	> 90 %
Concentration	0.2 ug/ul
Sequences	30-397
Storage	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.
Pathways	Adaptive Immunity Signaling; CD28 co-stimulation; Costimulation by the CD28 family; Immune System; Insulin Signaling; Interleukin-1 signaling; MAPK signaling pathway; Signaling by Interleukins; T cell receptor signaling pathway; Toll-like receptor signaling pathway; TNF-alpha/NF-kB Signaling Pathway; TCR signaling in naive CD8+ T cells; TCR signaling in naive CD4+ T cells; Role of Calcineurin-dependent NFAT signaling in lymphocytes; CD28 dependent PI3K/Akt signaling

GENE INFORMATION

Gene Name	MAP3K8 mitogen-activated protein kinase kinase kinase 8 [Homo sapiens]
Official Symbol	MAO3K8
Synonyms	MAP3K8; mitogen-activated protein kinase kinase kinase 8; EST; COT; MEKK8; Tpl-2; c-COT; Proto-oncogene c-Cot; Serine/threonine-protein kinase cot; Tumor progression locus 2; ESTF; Cancer Osaka thyroid oncogene; TPL2; FLJ10486; cot (cancer Osaka thyroid) oncogene; Ewing sarcoma transformant; proto-oncogene serine/threoine protein kinase; tumor progression locus-2; TPL-2; EC 2.7.11.25;

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OTTHUMP00000019392; OTTHUMP00000019393	
Gene ID	1326
mRNA Refseq	NM_005204
Protein Refseq	NP_005195
MIM	191195
UniProt ID	P41279
Chromosome Location	10p11.23
Function	ATP binding; MAP kinase kinase kinase activity; magnesium ion binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity