

Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase Kinase 1, GST-tagged

Cat. No. MAP4K1-1041H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP4K1 (1-346) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-346 a.a.
Description	MAP4K1 or Hematopoietic progenitor kinase 1 is a hematopoietic cell-restricted member of the Ste20 serine/threonine kinase super family. MAP4K1 is also known as mitogen-activated protein kinase kinase kinase kinase 1(MAP4K1). MAP4K1 is a tissue-specific upstream activator of the MEKK/JNK/SAPK signaling pathway. MAP4K1 diminishes T cell receptor (TCR) signaling activity and T cell proliferation by phosphorylating the adaptor protein SLP-76.
Applications	Kinase Assay; Western Blot
Molecular Weight	65 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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Specific Activity:	125 nmol/min/mg
Purity	> 75 %
Concentration	0.1 ug/ul
Sequences	1-346
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	Ceramide signaling pathway; Direct p53 effectors; EPHB forward signaling; Insulin Signaling; MAPK signaling pathway; TNF receptor signaling pathway

GENE INFORMATION

Gene Name	MAP4K1 mitogen-activated protein kinase kinase kinase kinase 1 [Homo sapiens]
Official Symbol	MAP4K1
Synonyms	MAP4K1; HPK1; mitogen-activated protein kinase kinase kinase kinase 1; MAPK/ERK kinase kinase kinase 1; MEK kinase kinase 1; MEKKK 1; EC 2.7.11.1; hematopoietic progenitor kinase 1; Hematopoietic progenitor kinase; EC 2.7.11
Gene ID	11184
mRNA Refseq	NM_007181
Protein Refseq	NP_009112

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MIM	601983
UniProt ID	Q92918
Chromosome Location	19q13.1-q13.4
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; small GTPase regulator activity

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