Recombinant Human MAP3K14, GST-tagged

Cat. No. MAP3K14-556H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAP3K14 (a.a. 381-end) with N-terminal GST tag expressed in a*Baculovirus infected Sf9 cell*expression system. MW = 96 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	381-end a.a.
Description	Mitogen-activated protein kinase kinase kinase 14 is an enzyme that in humans is encoded by the MAP3K14 gene. This gene encodes mitogen-activated protein kinase kinase kinase 14, which is a serine/threonine protein-kinase. This kinase binds to TRAF2 and stimulates NF-kappaB activity. It shares sequence similarity with several other MAPKK kinases. It participates in an NF-kappaB-inducing signalling cascade common to receptors of the tumour-necrosis/nerve-growth factor (TNF/NGF) family and to the interleukin-1 type-I receptor.
Application	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Purity	>90%.
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 3 mM DTT.
Specific Activity	20 nM NIK yields 20% conversion of 1 uM [32P]ATP using MBP as substrate.

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	Reaction condition: 10 mM HEPES, pH 7.4, 5 mM MgCl2, 10 μM MnCl2, 1 mM DTT, 3 μM Na-orthovanadate, 1 μM ATP, and MBP as substrate at room temperature for 2 hrs.
Stability	>6 months at -80°C.

GENE INFORMATION

Gene Name	MAP3K14 mitogen-activated protein kinase kinase kinase 14 [Homo sapiens]
Synonyms	mitogen-activated protein kinase kinase kinase 14; HS; NIK; HSNIK; FTDCR1B; MAP3K14; NF-kappa-beta-inducing kinase; serine/threonine protein-kinase; serine/threonine-protein kinase NIK; EC 2.7.11.25; Serine/threonine-protein kinase NIK
Gene ID	9020
mRNA Refseq	NM_003954.2
Protein Refseq	NP_003945.2
MIM	604655
UniProt ID	Q99558
Chromosome Location	17q21
Pathway	Apoptosis; Epithelial cell signaling in Helicobacter pylori infection; Intestinal immune network for IgA production; MAPK signaling pathway; T cell receptor signaling pathway

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Function	MAP kinase kinase kinase activity; ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; transferase activity

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