

## Recombinant Human MAP3K14, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MAP3K14 (a.a. 381-end) with N-terminal GST tag expressed in a <i>Baculovirus infected Sf9 cell</i> expression system. MW = 96 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Protein Length</b>	381-end a.a.
<b>Description</b>	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.
<b>Application</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
<b>Purity</b>	>90%.
<b>Formulated In</b>	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 3 mM DTT.
<b>Specific Activity</b>	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 MgCl<sub>2</sub>, 10 μM MnCl<sub>2</sub>, 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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