

## Recombinant Human MAP3K8, GST-His

**Cat. No.** MAP3K8-636H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Cot/Tpl2 (a.a. 30-397) with N-terminal GST-His6-tag was expressed in a <i>Baculovirus infected Sf9 cell</i> expression system. MW = 70 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Protein Length</b>	30-397 a.a.
<b>Description</b>	Mitogen-activated protein kinase kinase kinase 8 is an enzyme that in humans is encoded by the MAP3K8 gene. This gene was identified by its oncogenic transforming activity in cells. The encoded protein is a member of the serine/threonine protein kinase family. This kinase can activate both the MAP kinase and JNK kinase pathways. This kinase was shown to activate I $\kappa$ B kinases, and thus induce the nuclear production of NF- $\kappa$ B.
<b>Purity</b>	>80%.
<b>Formulated In</b>	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, 3 mM DTT.
<b>Application</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
<b>Stability</b>	>6 months at $-80^{\circ}\text{C}$ .
<b>Pathways</b>	MAPK signaling pathway; T cell receptor signaling pathway; Toll-like receptor

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signaling pathway; Signaling in Immune system

## GENE INFORMATION

**Gene Name** [MAP3K8 mitogen-activated protein kinase kinase kinase 8 \[ Homo sapiens \]](#)

**Synonyms** mitogen-activated protein kinase kinase kinase 8; COT; EST; ESTF; TPL2; MEKK8; Tpl-2; c-COT; FLJ10486; MAP3K8; proto-oncogene c-Cot; tumor progression locus 2; tumor progression locus-2; Ewing sarcoma transformant; Cancer Osaka thyroid oncogene; cot (cancer Osaka thyroid) oncogene; serine/threonine-protein kinase cot; proto-oncogene serine/threonine protein kinase; OTTHUMP00000019393; Ewing sarcoma transformant; OTTHUMP00000019392; TPL-2; Tumor progression locus 2; COT proto-oncogene serine/threonine-protein kinase; EC 2.7.11.25; C-COT

**Gene ID** [1326](#)

**mRNA Refseq** [NM\\_005204](#)

**Protein Refseq** [NP\\_005195](#)

**MIM** [191195](#)

**UniProt ID** [P41279](#)

**Chromosome Location** 10p11.23

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

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