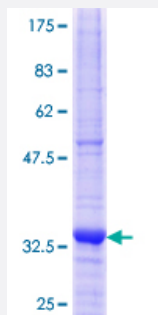


# MAP3K3 (Human) Recombinant Protein (Q01)

Catalog # H00004215-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human MAP3K3 partial ORF ( AAH10464.1, 1 a.a. - 89 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MNEANVMLPYSGKEEPVLPVAMTLPLPGRGPRCGTAATEGSSFVNAVVSVLQVGVTLMLYPV SKLETVCALWALSTPALGLGLGCIEK
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	35.53
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — MAP3K3

Entrez GeneID [4215](#)

GeneBank Accession# [BC010464](#)

Protein Accession# [AAH10464.1](#)

Gene Name MAP3K3

Gene Alias MAPKKK3, MEKK3

Gene Description mitogen-activated protein kinase kinase kinase 3

Omim ID [602539](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene product is a 626-amino acid polypeptide that is 96.5% identical to mouse Mekk3. Its catalytic domain is closely related to those of several other kinases, including mouse Mekk2, tobacco NPK, and yeast Ste11. Northern blot analysis revealed a 4.6-kb transcript that appears to be ubiquitously expressed. This protein directly regulates the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by activating SEK and MEK1/2 respectively; it does not regulate the p38 pathway. In cotransfection assays, it enhanced transcription from a nuclear factor kappa-B (NFkB)-dependent reporter gene, consistent with a role in the SAPK pathway. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

**Other Designations** MAP/ERK kinase kinase 3|MAPK/ERK kinase kinase 3

## Pathway

- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)

- [Neurotrophin signaling pathway](#)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)