



# Recombinant Mouse Mitogen-activated protein kinase kinase kinase 3 (Map3k3)

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| <b>Product Code</b>      | CSB-EP013425MO  |
| <b>Abbreviation</b>      | Map3k3  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.  |
| <b>Uniprot No.</b>       | Q61084  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Mus musculus (Mouse)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | MDEQEALDSI MKDLVALQMS RRTRLGGYET MKNKDTGHPN RQSDVRIKFE<br>HNGERRIIAF SRPVRYEDVE HKVTTVFGQP LDLHYMNNEL SILLKNQDDL<br>DKAIDILDRS SSMKSLRILL LSQDRNHTSS SPHSGVSRQV RIKPSQSAGD<br>INTIYQAPPEP RSRHLSVSSQ NPGRSSPPPG YVPERQQHIA RQGSYTSINS<br>EGEFIPETSE QCMLDPLSSA ENSLSGSCQS LDRSADSPSF RKSQMSRARS<br>FPDNRKECSD RETQLYDKGV KGGTYPRRYH VSVHHKDYND GRRTFPRIIR<br>HQQNLFTLVP SSRSLSTNGE NMGVAVQYLD PRGRLRSADS ENALTVQERN<br>VPTKSPSAPI NWRRGKLLGQ GAFGRVYLCY DVDTGRELAS KQVQFDPDSP<br>ETSKEVSALE CEIQLLKNLQ HERIVQYYGC LRDRAEKILT IFMEYMPGGS<br>VKDQLKAYGA LTESVTRKYT RQILEGMSYL HSNMIVHRDI KGANILRDSA<br>GNVKLGDFGA SKRLQTICMS GTGIRSVTGT PYWMSPEVIS GEGYGRKADV<br>WSLGCTVVEM LTEKPPWAEY EAMAAIFKIA TQPTNPQLPS HISEHGRDFL<br>RRIFVEARQR PSAEELLTHH FAQLVY |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | Map3k3  |
| <b>Protein Names</b>     | Recommended name: Mitogen-activated protein kinase kinase kinase 3 EC= 2.7.11.25 Alternative name(s): MAPK/ERK kinase kinase 3 Short name= MEK kinase 3 Short name= MEKK 3  |
| <b>Expression Region</b> | 1-626   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | full length protein   |
| <b>Target Details</b>    | 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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