



# Recombinant Rat Mitogen-activated protein kinase 10 (Mapk10)

<b>Product Code</b>	CSB-EP013449RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P49187
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSLHFLYYCS EPTLDVKIAF CQGFDKHVDV SSVVKHYNMS KSKVDNQFYS VEVGDSTFTV LKRYQNLKPI GSGAQQIVCA AYDAVLDRNV AIKCLSRPFQ NQTHAKRAYR ELVLMKCVNH KNIISLLNVF TPQKTLEEFQ DVYLVMEMLMD ANLCQVIQME LDHERMSYLL YQMLSAIKHL HSAGIIHRDL KPSNIVVKSD CTLKILDFGL ARTAGTSFMM TPYVVTRYR APEVILGMGY KENVDIWSVG CIMGEMVRHK ILFPGRDYID QWNKVIEQLG TPCPEFMKKL QPTVRNYVEN RPKYAGLTFP KLFPDSLFP DSEHNKLGAS QARDLLSKML VIDPAKRISV DDALQHPYIN VWYDPAEVEA PPPQIYDKQL DEREHTIEEW KELIYKEVMN SEEKTKNGVV KGQPSPSGAA VNSSESLPPS SSVNDISSMS TDQTLASDTD SSLEASAGPL GCCR
<b>Source</b>	E.coli
<b>Target Names</b>	Mapk10
<b>Protein Names</b>	Recommended name: Mitogen-activated protein kinase 10 Short name= MAP kinase 10 Short name= MAPK 10 EC= 2.7.11.24 Alternative name(s): SAPK-beta Stress-activated protein kinase JNK3 c-Jun N-terminal kinase 3 p54-be
<b>Expression Region</b>	1-464
<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 protein is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This protein is a neuronal-specific form of c-Jun N-terminal kinases (JNKs). Through its phosphorylation and nuclear localization, this kinase plays regulatory roles in the signaling pathways during neuronal apoptosis. Beta-arrestin 2, a receptor-regulated MAP kinase scaffold protein, is found to interact with, and stimulate the phosphorylation of this kinase by MAP kinase kinase 4 (MKK4). Cyclin-dependent kinase 5 can phosphorylate, and inhibit the activity of this kinase, which may be important in preventing neuronal apoptosis. Four alternatively spliced transcript variants encoding distinct



isoforms have been reported.

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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**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

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.