Recombinant Human Dual specificity mitogen-activated protein kinase kinase 3 (MAP2K3)

Product Code	CSB-MP013412HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P46734
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MESPASSQPA SMPQSKGKSK RKKDLRISCM SKPPAPNPTP PRNLDSRTFI TIGDRNFEVE ADDLVTISEL GRGAYGVVEK VRHAQSGTIM AVKRIRATVN SQEQKRLLMD LDINMRTVDC FYTVTFYGAL FREGDVWICM ELMDTSLDKF YRKVLDKNMT IPEDILGEIA VSIVRALEHL HSKLSVIHRD VKPSNVLINK EGHVKMCDFG ISGYLVDSVA KTMDAGCKPY MAPERINPEL NQKGYNVKSD VWSLGITMIE MAILRFPYES WGTPFQQLKQ VVEEPSPQLP ADRFSPEFVD FTAQCLRKNP AERMSYLELM EHPFFTLHKT KKTDIAAFVK EILGEDS
Source	Mammalian cell
Target Names	MAP2K3
Protein Names	Recommended name: Dual specificity mitogen-activated protein kinase kinase 3 Short name= MAP kinase kinase 3 Short name= MAPKK 3 EC= 2.7.12.2 Alternative name(s): MAPK/ERK kinase 3 Short name= MEK 3 Stress-activated
Expression Region	1-347
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This protein is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene.
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.
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.