



# Recombinant Human Dual specificity mitogen-activated protein kinase kinase 2 (MAP2K2)

<b>Product Code</b>	CSB-YP013411HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P36507
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MLARRKPVLP ALTINPTIAE GPSPTSEGAS EANLVDLQKK LEELELDEQQ KKRLEAFLTQ KAKVGELKDD DFERISELGA GNGGVVTKVQ HRPSGLIMAR KLIHLEIKPA IRNQIIRELQ VLHECNSPYI VGFYGFYSD GEISICMEHM DGGSLDQVLK EAKRIPEEIL GKVSIIVLRG LAYLREKHQI MHRDVKPSNI LVNSRGEIKL CDFGVSGQLI DSMANSFVGT RSYMAPERLQ GTHYSVQSDI WSMGLSLVEL AVGRYPIPPP DAKELEAIFG RPVVDGEEGE PHSISPRPRP PGRPVS GHGM DSRPAMAIFE LLDYIVNEPP PKLPNGVFTP DFQEFVNKCL IKNPAERADL KMLTNHTFIK RSEVEEVDFG GWLCKTLRLN QPGTPTRTAV
<b>Source</b>	Yeast
<b>Target Names</b>	MAP2K2
<b>Protein Names</b>	Recommended name: Dual specificity mitogen-activated protein kinase kinase 2 Short name= MAP kinase kinase 2 Short name= MAPKK 2 EC= 2.7.12.2Alternative name(s): ERK activator kinase 2 MAPK/ERK kinase 2 Short name=
<b>Expression Region</b>	1-400
<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 dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene.
<b>Reconstitution</b>	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.