

**MAP2K2, 1-400aa, Human, His tag, E.coli**

**Cat.NO.: TP02896**

3th Edition

**Synonyms:**Dual specificity mitogen-activated protein kinase kinase 2, MAPKK2, MEK2, MKK2, PRKMK2.

**Description:**MAP2K2, also known as MEK2, belongs to the STE grouping of kinases. Both MEK2 and the related MEK1 are dualspecificity kinases, phosphorylating and activating the mitogen-activated protein kinases ERK1 and ERK2 at T and Y positions within the phosphoacceptor sequence T-E-Y. MAP2K2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

**Molecular Weight:**46.9 kDa (424aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMLARRKPVLPALTINPTIAEGPSPTSEGASEANLVDLQKKLEELDEQQK  
KRLEAFLTQKAKVGELKDDDFERISELGAGNGGVVTKVQHRPSGLIMARKLIHLEIKPAIRNQIIRELQVLHECNSPYI  
VGFYGAFYSDGEISICMEHMDGGSLDQVLKEAKRIPEEILGKVSIAVLRGLAYLREKHQIMHRDVKPSNILVNSRGEI  
KLCDFGVSGQLIDSMANSFVGTRSYMAPERLQGTHYSVQSDIWSMGLSLVELAVGRYPPIPPDAKELEAIFGRPVV  
DGEEGEPHSISPRPRPPGRPVS GHGMDSRPAMAIFELLDYIVNEPPP KLPNGVFTPDFQEFVNKCLIKNPAERADLK  
MLTNHTFIKRSEVEEVDFAGWLCKTLRLNQP GTPTRTAV

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.