

Recombinant Human Mitogen-Activated Protein Kinase Kinase 2, His-tagged

Cat. No. MAP2K2-1316H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanMAP2K2 proetin, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	MAP2K2, also knownas MEK2,belongs to the STE grouping of kinases. Both MEK2 and the related MEK1 aredualspecificity kinases, phosphorylating and activating the mitogen-activatedprotein kinases ERK1 and ERK2 at T and Y positions within the phosphoacceptorsequence T-E-Y. MAP2K2 is activated by a wide variety of growth factors andcytokines and also by membrane depolarization and calcium influx.
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol.
Molecular Weight	46.9 kDa (424aa), confirmedby MALDI-TOF.
Purity	> 90% by SDS -PAGE.
Concentration	0.25 mg/ml(determined by Bradford assay).
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSFMLARRK PVLPAITNP TIAEGPSPTS EGASEANLVD LQKKLEEL EL DEQQKKRLEAFLTQKAKVGE LKDDDFERIS ELGAGNGGVV TKVQHRPSGL IMAKLIHLE IKPAIRNQII

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RELQVLHECNSPYIVGFYGA FYSDGEISIC MEHMDGGSLD QVLKEAKRIP
 EEILGKVSIA VLRGLAYLRE KHQIMHRDVKPSNILVNSRG EIKLCDFGVS
 GQLIDSMANS FVGTRSYMAP ERLQGTHYSV QSDIWSMGLS
 LVELAVGRYPPIPPDAKELE AIFGRPVVDG EEGEPHSISP RPRPPGRPVS
 GHGMDSRPAM AIFELLDYIV NEPPPKLPNG VFTPDPQEFVNKCLIKNP
 RADLKMLTNH TFIKRSEVEE VDFAGWLCKT LRLNQPGTPT RTAV

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.

Official Symbol

MAP2K2

GENE INFORMATION

Gene Name

MAP2K2 mitogen-activated protein kinase kinase 2 [Homo sapiens]

Synonyms

MAP2K2; mitogen-activated protein kinase kinase 2; MEK2; MKK2;
 MAPKK2; PRKMK2; dual specificity mitogen-activated protein kinase kinase 2;
 MAPK/ERK kinase 2; MAP kinase kinase 2; ERK activator kinase 2; mitogen-activated protein kinase kinase 2, p45

Gene ID

5605

mRNA Refseq

NM_030662

Protein Refseq

NP_109587

MIM

601263

UniProt ID

P36507

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Chromosome Location	19p13.3
Pathway	ARMS-mediated activation; Activated TLR4 signalling; Acute myeloid leukemia; Axon guidance; B Cell Receptor Signaling Pathway; Bladder cancer; CXCR3-mediated signaling events; Chronic myeloid leukemia; Fc epsilon RI signaling pathway; Gap junction; IL-2 Signaling Pathway; MAP kinase activation in TLR cascade; Non-small cell lung cancer; Toll Like Receptor 7/8 (TLR7/8) Cascade; mTOR signaling pathway
Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein complex scaffold; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity
PDB rendering based on 1s9i.	