

Recombinant Human MAP2K2, His-tagged

Cat. No. MAP2K2-15860H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP2K2 proetin, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-400aa
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 Mass	46.9 kDa (424aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSFMLARRK PVLPAITNP TIAEGPSPTS EGASEANLVD LQKKLEEL EL DEQQKKRLEA FLTQKAKVGE LKDDDFERIS ELGAGNGGVV TKVQHRPSGL IMARKLIHLE IKPAIRNQII RELQVLHECN SPYIVGFYGA FYSDGEISIC MEHMDGGSLDQVLKEAKRIP EEILGKVSIA VLRGLAYLRE KHQIMHRDVK PSNILVNSRG EIKLCDFGVS GQLIDSMANS FVGTRSYMAP ERLQGTHYSV QSDIWSMGLS LVELAVGRYP IPPPDAKELE

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AIFGRPVDG EEGEPHSISP RPRPPGRPVS GHGMDSRPAM AIFELLDYIV
 NEPPPKLPNGVFTPDFQEFV NKCLIKNP AE RADLKMLTNH TFIKRSEVEE
 VDFAGWLCKT LRLNQPGTPT RTAV

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [MAP2K2 mitogen-activated protein kinase kinase 2 \[Homo sapiens \]](#)

Official Symbol MAP2K2

Synonyms MAP2K2; mitogen-activated protein kinase kinase 2; PRKMK2; dual specificity mitogen-activated protein kinase kinase 2; MEK2; MAPK/ERK kinase 2; MAP kinase kinase 2; ERK activator kinase 2; mitogen-activated protein kinase kinase 2, p45; MKK2; MAPKK2; FLJ26075;

Gene ID [5605](#)

mRNA Refseq [NM_030662](#)

Protein Refseq [NP_109587](#)

MIM [601263](#)

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UniProt ID	P36507
Chromosome Location	19p13.3
Pathway	ARMS-mediated activation, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein binding; protein complex scaffold; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity;

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