

Recombinant Full Length Human MAP2K1 Protein, C-Flag-tagged

Cat. No. MAP2K1-234HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MAP2K1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	43.3 kDa
AA Sequence	MPKKKPTPIQLNPAPDGSVNGTSSAETNLEALQKKLEELDEQQRKRLEAFLTQK QKVGELKDDDFEK ISELGAGNGGVVFKVSHKSSGLVMARKLIHLEIKPAIRNQIIREL QVLHECNSPYIVGFYGAIFYSDGEIS ICMEHMDGGSLDQVLKKAGRIPEQILGKVSIAV IKGLTYLREKHKIMHRDVKPSNILVNSRGEIKLCDFG VSGQLIDSMANSFVGTRSYM

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	SPERLQGTHYSVQSDIWSMGLSLVEMAVGRYPIPPPDAAKELELMFGCQVE GDAAE TPPRPRTPGRPLSSYGMDSRPPMAIFELLDYIVNEPPPKLPSGVFSLEFQDFVНКCLI KNPAERA DLKQLMVHAFIKRSDAEEVDFAGWLCSTIGLNQPSTPTHAAGVTRTRPLEQKLISEE DLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso- ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Oocyte meiosis, Pancreatic cancer, Pathways in cancer, Prion diseases, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling

pathway, Thyroid cancer, Toll-like receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway

Full Length Full L.

GENE INFORMATION

Gene Name MAP2K1 mitogen-activated protein kinase kinase 1 [Homo sapiens (human)]

Official Symbol MAP2K1

Synonyms MEL; CFC3; MEK1; MKK1; MAPKK1; PRKMK1

Gene ID 5604

mRNA Refseq NM_002755.4

Protein Refseq NP_002746.1

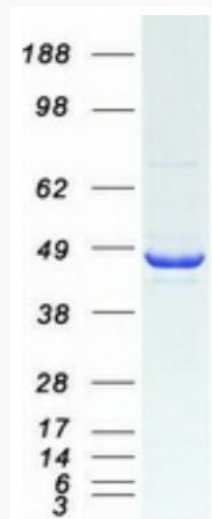
MIM 176872

UniProt ID Q02750

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Coomassie blue staining of purified MAP2K1 protein.

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