

Recombinant Full Length Human MAP2K4 Protein, C-Flag-tagged

Cat. No. MAP2K4-1091HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MAP2K4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.1 kDa
AA Sequence	MAAPSPSGGGGSGGGRGSGTPGPVGSPAPGHPAVSSMQGKRKALKLNFANPPFK STARFTLNPNPTGVQN PHIERLRTHSIESSGKLKISPEQHWDFTAEDLKDLGEIGRG

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AYGSVNKMVHKPSGQIMAVKRIRSTVDEK EQKQLLMDLDVVMRSSDCPYIVQFYGA
 LFREGDCWICMELMSTSFDFKYKYVYSVLDDVIPEEILGKITL ATVKALNHLKENLKII
 HRDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSAS RQGY
 DVRSDVWSLGITLYELATGRFPYPKWNSVFDQLTQVVKGDPPQLSNSEEREFSFSFI
 NFVNLCLTK
 DESKRPKYKELLKHPFILMYEERAVEVACYVCKILDQMPATPSSPMYVDTRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

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	Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

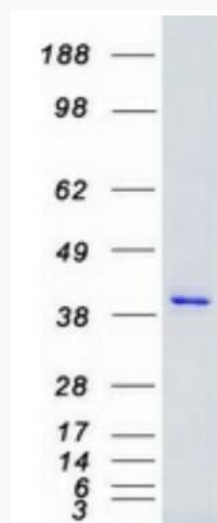
Gene Name MAP2K4 mitogen-activated protein kinase kinase 4 [Homo sapiens (human)]

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Official Symbol	MAP2K4
Synonyms	JNKK; MEK4; MKK4; SEK1; SKK1; JNKK1; SERK1; MAPKK4; PRKMK4; SAPKK1; SAPKK-1
Gene ID	6416
mRNA Refseq	NM_003010.4
Protein Refseq	NP_003001.1
MIM	601335
UniProt ID	P45985



Coomassie blue staining of purified MAP2K4 protein.