

Recombinant Human MAP2K4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAP2K4-3115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAP2K4 MS Standard C13 and N15-labeled recombinant protein (NP_003001) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 MAPKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKs 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.
Molecular Mass	44.1 kDa
AA Sequence	MAAPSPSGGGGSGGGRGSGTPGPVGSPAPGHPAVSSMQGKRKALKLNFANPPFK STARFTLNPNPTGVQNPHERLRTHSISSGKLKISPEQHWDFTAEDLKDLGEIGRGA YGSVNKMHKPSGQIMAVKRIRSTVDEKEQKQLLMDLDVVMRSSDCPYIVQFYGAL

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FREGDCWICMELMSTSFDFKYKYVYSVLDDVIPEEILGKITLATVKALNHLKENLKIHH
 RDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSASRQGYD
 VRSDVWSLGITLYELATGRFPYPKWNSVFDQLTQVVKGDPPLSNSEEREFSFIN
 FVNLCLTKDESKRPKYKELLKHPFILMYEERAVEVACYVCKILDQMPATPSSPMYVD
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol MAP2K4

Synonyms MAP2K4; mitogen-activated protein kinase kinase 4; SERK1; dual specificity mitogen-activated protein kinase kinase 4; JNKK1; MEK4; MKK4; PRKMK4; MEK 4; MAPKK 4; SAPK kinase 1; MAPK/ERK kinase 4; SAPK/ERK kinase 1; MAP kinase kinase 4; JNK-activated kinase 1; JNK activating kinase 1; JNK-activating kinase 1; c-Jun N-terminal kinase kinase 1; stress-activated protein kinase kinase 1; JNKK; SEK1; MAPKK4; SAPKK1; SAPKK-1;

Gene ID 6416

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mRNA Refseq NM_003010

Protein Refseq NP_003001

MIM 601335

UniProt ID P45985

SDS-PAGE



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