

Product datasheet for **TP306051M**

MEK4 (MAP2K4) (NM_003010) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human mitogen-activated protein kinase kinase 4 (MAP2K4), 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA >RC206051 representing NM_003010
Clone or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MAAPSPSGGGGGSGGGGRSGTGPVGVSPAPGHPAVSSMQGKRKALKLNANPPFKSTARFTLNPNPTGVQN
PHIERLRTHSIESSGKLIKISPEQHWDFTAEDLKDLEIGRGAYGSVNMVHKPSGQIMAVKRIRSTVDEK
EQKQLLMDLDVVMRSSDCPYIVQFYGALFREGDCWICMELMSTSFDFKYKYVSVLDDVIPEEILGKITL
ATVKALNHLKENLKIHRDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSAS
RQGYDVRSDVWSLGITLYELATGRFPYPKWNSVFDQLTQVVKGDPPQLSNSEEREFSPSFVNLCLTK
DESKRPKYKELLKHPFILMYEERAVEVACYVCKILDQMPATPSSPMYVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 44.1 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage: Store at -80°C.
Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq: [NP_003001](#)
Locus ID: 6416



[View online »](#)

UniProt ID: [P45985](#)

RefSeq Size: 3752

Cytogenetics: 17p12

RefSeq ORF: 1197

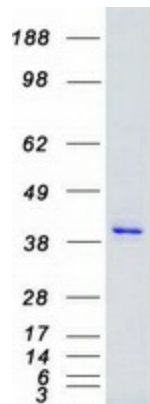
Synonyms: JNKK; JNKK1; MAPKK4; MEK4; MKK4; PRKMK4; SAPKK-1; SAPKK1; SEK1; SERK1; SKK1

Summary: 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. [provided by RefSeq, Jul 2013]

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

Product images:



Coomassie blue staining of purified MAP2K4 protein (Cat# [TP306051]). The protein was produced from HEK293T cells transfected with MAP2K4 cDNA clone (Cat# [RC206051]) using MegaTran 2.0 (Cat# [TT210002]).