

# Recombinant Human MAP3K7 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** MAP3K7-4095H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	MAP3K7 MS Standard C13 and N15-labeled recombinant protein (NP_003179) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.
<b>Molecular Mass</b>	64 kDa
<b>AA Sequence</b>	MSTASAASSSSSSSAGEMIEAPSQVLNFEEIDYKEIEVEEVVGRGAFGVVCKAKWRA KDVAIKQIESESERKAFIVELRQLSRVNHPNIVKLYGACLNPVCLVMEYAEGGSLYNV LHGAEPLPYTAAHAMSWCLQCSQGVAYLHSMQPKALIHRLKPPNLLL VAGGTVL KICDFGTACDIQTHMTNKGSAAWMAPEVFEGSNYSEKCDVFSWGILWEVITRRKP

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FDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSQRPSMEEIVKIMTH  
 LMRYFPGADEPLQYPCQYSDEGQSNSATSTGFSMDIANTNTSNKSDTNMEQVPAT  
 NDTIKRLESKLLKNQAKQQSESGRLSLGASRGSSVESLPPTSEGKRMSADMSEIEA  
 RIAATTGNGQPRRRSIQDLTVTGTEPGQVSSRSSSSPSVRMITTSPTSEKPTRSHP  
 WTPDDSTDNTGSDNSIPMAYLTLDHQLQPLAPCPNSKESMAVFEQHCKMAQEYMK  
 VQTEIALLLQRKQELVAELDQDEKDQNTSRLVQEHHKLLDENKSLSTYYQQCKKQL  
 EVIRSQQQKRQGTSTRRLEQKLISEEDLAANDILDYKDDDDKV

**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** MAP3K7 mitogen-activated protein kinase kinase kinase 7 [ Homo sapiens (human) ]

**Official Symbol** MAP3K7

**Synonyms** MAP3K7; mitogen-activated protein kinase kinase kinase 7; TAK1; MEKK7; TGF-beta activated kinase 1; TGF-beta-activated kinase 1; transforming growth factor-beta-activated kinase 1; TGF1a;

**Gene ID** 6885

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mRNA Refseq [NM\\_003188](#)

Protein Refseq [NP\\_003179](#)

MIM [602614](#)

UniProt ID [O43318](#)

SDS-PAGE



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