

## Product datasheet for **TP304454M**

### **TAK1 (MAP3K7) (NM\_003188) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human mitogen-activated protein kinase kinase kinase 7 (MAP3K7), transcript variant A, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC204454 representing NM_003188 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSTASAASSSSSSSAGEMIEAPSQVLNFFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDVAIKQIESESE  
RKAFIVELRQLSRVNHPIVIVKLYGACLNVPVCLVMEYAEGGSLYNVLHGAELPPYYTAAHMSWCLQCSQG  
VAYLHSMQPKALIHRLDKPPNLLLAVGGTVLKICDFGTACDIQTHMTNNGSAAWMAPEVFECSNYSEK  
DVFSWGIILWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSPRSMEEI  
VKIMTHLMRYFPGADEPLQYPCQYSDEGQSN SATSTG SFMDIASTNTSNKSDTNMEQVPATNDTIKRLES  
KLLKNQAKQQSESGRSLGASRGSSVESLPPPTSEGRMSADMSEIEARIAATTGNGQPRRRSIQDLTVTG  
TEPGQVSSRSSPSVRMITTSPTSEKPTRSHWPDDSTDTNGSDNSIPMAYLTLDHQLQPLAPCPNSK  
ESMAVFEHQCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKQDQNTSRLVQEHEKLLDENKSLSTYYQQ  
CKKQLEVIRSQQKROGTS

**TRRLEQKLISEEDLAANDILDYKDDDDKV**

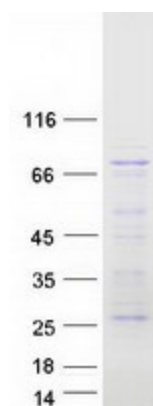
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	64 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003179</a>
<b>Locus ID:</b>	6885
<b>UniProt ID:</b>	<a href="#">O43318</a>
<b>RefSeq Size:</b>	2912
<b>Cytogenetics:</b>	6q15
<b>RefSeq ORF:</b>	1737
<b>Synonyms:</b>	CSCF; FMD2; MEKK7; TAK1; TGF1a
<b>Summary:</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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Adherens junction, MAPK signaling pathway, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Wnt signaling pathway

### Product images:



Coomassie blue staining of purified MAP3K7 protein (Cat# [TP304454]). The protein was produced from HEK293T cells transfected with MAP3K7 cDNA clone (Cat# [RC204454]) using MegaTran 2.0 (Cat# [TT210002]).