

Product datasheet for **TP304454**

TAK1 (MAP3K7) (NM_003188) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitogen-activated protein kinase kinase kinase 7 (MAP3K7), transcript variant A, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204454 representing NM_003188 Red =Cloning site Green =Tags(s)

MSTASAASSSSSSSAGEMIEAPSQVLNFFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDVAIKQIESESE
RKAFIVELRQLSRVNHPIVIVKLYGACLNVPVCLVMEYAEGGSLYNVLHGAELPPYYTAAHAMSACLQCSQG
VAYLHSMQPKALIHRLKPPNLLLAVGGTVLKICDFGTACDIQTHMTNNGSAAWMAPEVFECSNYSEK
DVFSWGIIWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSPRSMEEI
VKIMTHLMRYFPGADEPLQYPCQYSDEGQSN SATSTG SFMDIASTNTSNKSDTNMEQVPATNDTIKRLES
KLLKNQAKQQSESGRSLGASRGSSVESLPPTSEGRMSADMSEIEARIAATTGNGQPRRRSIQDLTVTG
TEPGQVSSRSPSVRMITTSPTSEKPTRSHWPDDSTDTNGSDNSIPMAYLTLDHQLQPLAPCPNSK
ESMAVFEHQCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKQDQNTSRLVQEHEKLLDENKSLSTYYQQ
CKKQLEVIRSQQKROGTS

TRRLEQKLISEEDLAANDILDYKDDDDKV

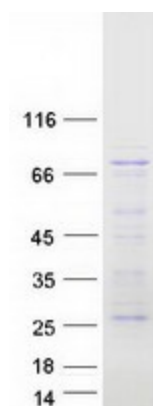
Tag:	C-Myc/DDK
Predicted MW:	64 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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.



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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_003179
Locus ID:	6885
UniProt ID:	O43318
RefSeq Size:	2912
Cytogenetics:	6q15
RefSeq ORF:	1737
Synonyms:	CSCF; FMD2; MEKK7; TAK1; TGF1a
Summary:	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]
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	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]).