

Product datasheet for PH304454

TAK1 (MAP3K7) (NM_003188) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MAP3K7 MS Standard C13 and N15-labeled recombinant protein (NP_003179)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204454
Predicted MW:	64 kDa
Protein Sequence:	>RC204454 representing NM_003188 Red=Cloning site Green=Tags(s)

MSTASAASSSSSSSAGEMIEAPSQVLNFEEDIDYKEIEVEEVVGRGAFGVVCKAKWRKADVAIKQIESESE
RKAFIVELRQLSRVNHPIVVKLYGACLNVPCLVMEYAEGGSLYNVLHGAEPLPYTTAAHAMSACLQCSQG
VAYLHSMQPKALIHRLKPPNLLL VAGGTVLKICDFGTACDIQTHMTNNGSAAWMAPEVFEFSNYSEKC
DVFSGIILWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSPRSMEEI
VKIMTHLMRYFPGADEPLQYPCQYSDEGQNSATSTGFM DIASNTSNKSDTNMEQVPATNDTIKRLS
KLLKNQAKQQSESGRLSLGASRGSSVESLPPTSEKGRMSADMSEIEARIAATTGNGQPRRRSIQDLTVTG
TEPGQVSSRSSSPSVRMITTSPTSEKPTRSHWPDPDSDTNGSDNSIPMAYLTDHQLQPLAPCPNSK
ESMAVFEQHCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKQDQNTSRLVQEHKLLDENKSLSTYYQQ
CKKQLEVIRSQQKRQGT

TRRLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003179
RefSeq Size:	2912
RefSeq ORF:	1737



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Synonyms: CSCF; FMD2; MEKK7; TAK1; TGF1a

Locus ID: 6885

UniProt ID: [O43318](#)

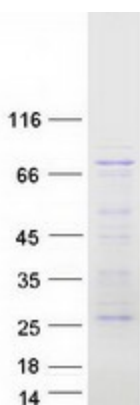
Cytogenetics: 6q15

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]).