

## Product datasheet for **TP304481M**

### MEK6 (MAP2K6) (NM\_002758) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitogen-activated protein kinase kinase 6 (MAP2K6), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204481 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MSQSKGKRNPLGLKIPKEAFEQPQTSSTPPRDLDSKACISIGNQNFVKADDLEPIMELGRGAYGWVEKM RHVPSGQIMAVKRIRATVNSQEQKRLLMDLDISMRTVDCPFTVTFYGALFREGDVVICMELMDTSLDKFY KQVIDKGQTIPEDILGKIAVSIVKALEHLHLSKLSVIHRDVKPSNVLINALGQVKMCDFGISGYLVDSVAK TIDAGCKPYMAPERINPELNQKGYSVKSDIWSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPPQLPA DKFSAEFVDFTSQCLKKNSKERPTYPELMQHPFFTLHESKGTDVASFVKLILGD
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	37.3 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
Bioactivity:	In vitro kinase assay substrate (PMID: <a href="#">29712904</a> )
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:	<a href="#">NP_002749</a>



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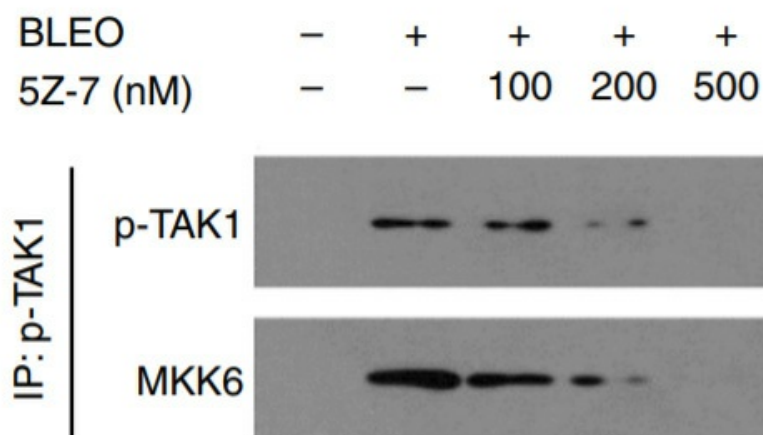
**Locus ID:** 5608  
**UniProt ID:** [P52564](#), [A8K3Y2](#)  
**RefSeq Size:** 1879  
**Cytogenetics:** 17q24.3  
**RefSeq ORF:** 1002  
**Synonyms:** MAPKK6; MEK6; MKK6; PRKMK6; SAPKK-3; SAPKK3

**Summary:** This gene encodes a member of the dual specificity protein kinase family, which functions as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAP kinase mediated signal transduction pathway, this gene is involved in many cellular processes such as stress induced cell cycle arrest, transcription activation and apoptosis. [provided by RefSeq, Jul 2008]

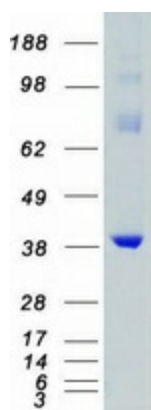
**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Amyotrophic lateral sclerosis (ALS), Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway

### Product images:



DNA damage activates TAK1. PSC27 cells were treated with bleomycin, an inducer of DNA strand breaks, with or without increasing concentrations of the TAK1 inhibitor 5Z-7. Cell lysates were immunoprecipitated with an anti-p-TAK1 antibody and subjected to the in vitro kinase assay with MKK6 (OriGene [TP304481]) as a substrate and radio-labeled ATP. Resulting samples were separated on a 12% SDS-PAGE gel and visualized with autoradiography. Figure cited from Nat Commun, PMID: 29712904



Coomassie blue staining of purified MAP2K6 protein (Cat# [TP304481]). The protein was produced from HEK293T cells transfected with MAP2K6 cDNA clone (Cat# [RC204481]) using MegaTran 2.0 (Cat# [TT210002]).