

## Product datasheet for **TP313868**

### MEK7 (MAP2K7) (NM\_145185) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mitogen-activated protein kinase kinase 7 (MAP2K7), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213868 representing NM_145185 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MAASSLEQKLSRLEAKLKQENREARRRIDLNLDISPQRPRPTLQLPLANDGGSRSPSESSPQHPTPPAR PRHMLGLPSTLFTPRSMESIEIDQKLQEIMKQTGYLTIGGQRYQAEINDLENL GEMSGT CGQVWKMRF KTGHVIAVKQMRRSGNKEENKRILMDLDVWLKSHDCPYIVQCFGTFITNTDVFIA MELMG TCAEKLK KRM QGPIPERILGKMTVAIVKALYYLKEKHGVIHRDVKPSNILLDERGQIKL CDFGISGR LVDSKAKTRSAGC AAYMAPERIDPPDPTKPDYDIRADVWSLGISLVELATGQFPYKNCKTDFEVLTKVLQEPPLLPGHMGFS GDFQSFVKDCLTKDHRKRPKYNKLLHHSFIKRYETLEVDVASWFKDVMAKTESPRTSGVLSQPHLPFFR</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	47.3 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
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_660186</a>
Locus ID:	5609



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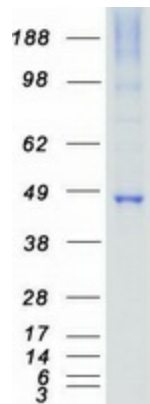
UniProt ID: [O14733](#)  
RefSeq Size: 3386  
Cytogenetics: 19p13.2  
RefSeq ORF: 1257  
Synonyms: JNKK2; MAPKK7; MEK; MEK 7; MKK7; PRKMK7; SAPKK-4; SAPKK4

**Summary:** The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically activates MAPK8/JNK1 and MAPK9/JNK2, and this kinase itself is phosphorylated and activated by MAP kinase kinase kinases including MAP3K1/MEKK1, MAP3K2/MEKK2, MAP3K3/MEKK5, and MAP4K2/GCK. This kinase is involved in the signal transduction mediating the cell responses to proinflammatory cytokines, and environmental stresses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

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

**Protein Pathways:** ErbB signaling pathway, Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway

### Product images:



Coomassie blue staining of purified MAP2K7 protein (Cat# TP313868). The protein was produced from HEK293T cells transfected with MAP2K7 cDNA clone (Cat# [RC213868]) using MegaTran 2.0 (Cat# [TT210002]).