

## Product datasheet for **TP760374**

### **PRAK (MAPKAPK5) (NM\_003668) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human mitogen-activated protein kinase-activated protein kinase 5 (MAPKAPK5), transcript variant 1, full length, with N-terminal HIS tag, expressed in E.Coli, 50ug
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence encoding human full-length MAPKAPK5
<b>Tag:</b>	N-His
<b>Predicted MW:</b>	53.9 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, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
<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.
<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_003659</a>
<b>Locus ID:</b>	8550
<b>UniProt ID:</b>	<a href="#">Q8IW41</a>
<b>RefSeq Size:</b>	2060
<b>Cytogenetics:</b>	12q24.12-q24.13
<b>RefSeq ORF:</b>	1413
<b>Synonyms:</b>	MAPKAP-K5; MK-5; MK5; PRAK



[View online »](#)

**Summary:**

The protein encoded by this gene is a tumor suppressor and member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. The encoded protein is found in the nucleus but translocates to the cytoplasm upon phosphorylation and activation. This kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov 2012]

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

MAPK signaling pathway

**Product images:**