

## Recombinant Human MAPK7 protein, His & GST-tagged

Cat. No. MAPK7-6949H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MAPK7 aa. (Val560~Glu793 (Accession # Q13164)) fused with N-terminal His & GST tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val560~Glu793
<b>Description</b>	<p>The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracellular signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 55.5kDa

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<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 5.4.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	MAPK7 mitogen-activated protein kinase 7 [ Homo sapiens (human) ]
<b>Official Symbol</b>	MAPK7
<b>Synonyms</b>	MAPK7; mitogen-activated protein kinase 7; BMK1; ERK4; ERK5; PRKM7; mitogen-activated protein kinase 7; BMK-1; BMK1 kinase; ERK-5; MAP kinase 7; MAPK 7; big MAP kinase 1; extracellular-signal-regulated kinase 5
<b>Gene ID</b>	5598

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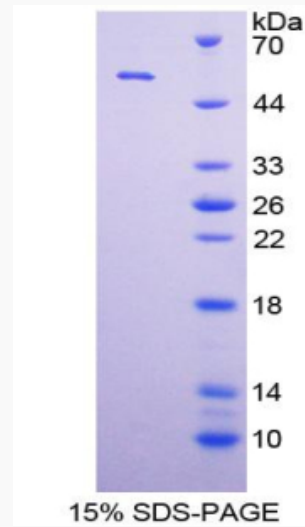
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mRNA Refseq [NM\\_002749.3](#)

Protein Refseq [NP\\_002740.2](#)

UniProt ID [Q13164](#)

**SDS-PAGE**



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