

# Recombinant Human Mitogen-Activated Protein Kinase 12, His-tagged

Cat. No. MAPK12-1264H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human full length MAPK12,His-tagged is expressed in Insect cells.	
<b>Species</b>	Human	
<b>Source</b>	Insect Cells	
<b>Description</b>	<p>MAPK12 is an enzyme that in humans is encoded by the MAPK12 gene. Activation of members of the mitogen-activated protein kinase family is a major mechanism for transduction of extracellular signals. Stress-activated protein kinases are one subclass of MAP kinases. The protein encoded by this gene functions as a signal transducer during differentiation of myoblasts to myotubes.</p>	
<b>Form</b>	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.25 mM EDTA + 0.01% Triton X-100 + 2 mM DTT + 50% glycerol.	
<b>Molecular Weight</b>	46 kDa	
<b>Storage</b>	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.	
<b>Official Symbol</b>	MAPK12	
<b>nullValue_other</b>	Function	ATP binding; MAP kinase activity; MAP kinase kinase activity; MP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; transferase activity

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**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

MAPK12mitogen-activated protein kinase 12 [ Homosapiens ]

**Synonyms**

MAPK12;mitogen-activated protein kinase 12; ERK3; ERK6; ERK-6; SAPK3;PRKM12; SAPK-3; P38GAMMA; stress-activated proteinkinase 3; mitogen-activated protein kinase 3; EC 2.7.11.24; MAPkinase 12; OTTHUMP00000028548; OTTHUMP00000196671; MAP kinase p38 gamma;extracellular signal-regulated kinase 6; mitogen-activated protein kinase p38gamma

**Gene ID**

6300

**mRNA Refseq**

NM\_002969

**Protein Refseq**

NP\_002960

**MIM**

602399

**UniProt ID**

P53778

**Chromosome  
Location**

22q13.33

**Pathway**

Amyotrophic lateral sclerosis(ALS); Epithelial cell signaling in Helicobacter pylori infection; Fc epsilonRI signaling pathway; GnRH signaling pathway; Leukocyte transendothelialmigration; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-likereceptor signaling pathway; T cell receptor signaling pathway; Toll-likereceptor signaling pathway; VEGF signaling pathway; Signalling by NGF

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