

## Recombinant Human MAPK12 protein, GST-tagged

Cat. No. MAPK12-27H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MAPK12 fused with GST tag at N-terminal was expressed in Insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>p38<math>\gamma</math> is a member of the p38 MAPK family which is activated in response to stress. p38-gamma gene was mapped to 22q13.3 and functions as a signal transducer during differentiation of myoblasts to myotubes. Enforced localization of p38<math>\gamma</math> in the nucleus or cytoplasm markedly attenuates the ability of the kinase to induce cell cycle arrest in fibroblasts. p38<math>\gamma</math> increases basal glucose uptake and decreases DNP- and contraction-stimulated glucose uptake, partially by affecting levels of glucose transporter expression in skeletal muscle.</p>
<b>Form</b>	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~66 kDa
<b>Purity</b>	>90%
<b>Applications</b>	Kinase Assay, Western Blot
<b>Stability</b>	1 year at -70 centigrade from the date of shipment

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**Storage** Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

**Concentration** 0.1 ug/uL

## GENE INFORMATION

**Gene Name** [MAPK12 mitogen-activated protein kinase 12 \[ Homo sapiens \]](#)

**Official Symbol** [MAPK12](#)

**Synonyms** MAPK12; mitogen-activated protein kinase 12; SAPK3; ERK6; p38gamma; PRKM12; SAPK 3; ERK-6; MAPK 12; MAP kinase 12; MAP kinase p38 gamma; stress-activated protein kinase 3; mitogen-activated protein kinase 3; extracellular signal-regulated kinase 6; mitogen-activated protein kinase p38 gamma; ERK3; SAPK-3; P38GAMMA;

**Gene ID** [6300](#)

**mRNA Refseq** [NM\\_002969](#)

**Protein Refseq** [NP\\_002960](#)

**MIM** [602399](#)

**UniProt ID** [P53778](#)

**Chromosome Location** 22q13.3

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**Pathway**

Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; CDO in myogenesis, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; DSCAM interactions, organism-specific biosystem;

**Function**

ATP binding; MAP kinase activity; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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