

Recombinant Human MAPK12 protein, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human MAPK12 fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	P38γ 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 p38γ in the nucleus or cytoplasm markedly attenuates the ability of the kinase to induce cell cycle arrest in fibroblasts. p38γ increases basal glucose uptake and decreases DNP- and contraction-stimulated glucose uptake, partially by affecting levels of glucose transporter expression in skeletal muscle.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~66 kDa
Purity	>90%
Applications	Kinase Assay, Western Blot
Stability	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.
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Concentration	0.1 ug/uL
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GENE INFORMATION

Gene Name	MAPK12 mitogen-activated protein kinase 12 [Homo sapiens]
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Official Symbol	MAPK12
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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;
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Gene ID	6300
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mRNA Refseq	NM_002969
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Protein Refseq	NP_002960
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MIM	602399
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UniProt ID	P53778
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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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