

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

**Cat. No.** MAPK12-1343H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant human MAPK12 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques. MW: 44.1 kDa.

**Species**      Human

**Source**      *E. coli*

**ProteinLength**      1-367aa

**Description**      MAPK12 belongs to the MAP kinase family. MAPK12 functions as a signal transducer during differentiation of myoblasts to myotubes. Expressed in different areas throughout the body with common expression patterns in heart, p38 proteins use magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins.

**Form**      Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.

**Molecular Mass**      44.1 kDa (387aa), confirmed by MALDI-TOF.

**AA Sequence**      MGSSHHHHHH SSGLVPRGSH MSSPPPARSG FYRQEVTKTA WEVRAVYRDL  
QPVGSGAYGA VCSAVDGRGT AKVAIKKLYR PFQSELF AKR AYRELRLKKH  
MRHENVIGLL DVFTPDETLD DFTDFYLVP FMGTDLGKLM KHEKLGEDRI

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QFLVYQMLKG LRYIHAAGII HRDLKPGNLA VNEDCELKIL DFGLARQADS  
 EMTGYYVTRW YRAPEVILNW MRYTQTVDIW SVGCIMAEMI TGKTLFKGSD  
 HLDQLKEIMK VTGTPPAEFV QRLQSDEAKN YMKGLPELEK KDFASILTNA  
 SPLAVNLLEK MLVLDAEQRV TAGEALAHYPY FESLHDEDE PQVQKYDDSF  
 DDVDRTLDEW KRVTYKEVLS FKPPRQLGAR VSKETPL

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## 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](#)

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<b>Protein Refseq</b>	NP_002960
<b>MIM</b>	602399
<b>UniProt ID</b>	P53778
<b>Chromosome Location</b>	22q13.3
<b>Pathway</b>	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;
<b>Function</b>	ATP binding; MAP kinase activity; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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