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 VCSAVDGRTG AKVAIKKLYR PFQSELFAKR AYRELRLLKH MRHENVIGLL DVFTPDETLD DFTDFYLVMP FMGTDLGKLM KHEKLGEDRI

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	QFLVYQMLKG LRYIHAAGII HRDLKPGNLA VNEDCELKIL DFGLARQADS EMTGYVVTRW YRAPEVILNW MRYTQTVDIW SVGCIMAEMI TGKTLFKGSD HLDQLKEIMK VTGTPPAEFV QRLQSDEAKN YMKGLPELEK KDFASILTNA SPLAVNLLEK MLVLDAEQRV TAGEALAHPY FESLHDTEDE 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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Protein Refseq	NP_002960
MIM	602399
UniProt ID	P53778
Chromosome Location	22q13.3
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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