

**MAPK12, 1-367aa, Human, His tag, E.coli**

**Cat.NO.: TP02902**

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3th Edition

**Synonyms:**Mitogen-activated protein kinase 12, ERK3, ERK6, P38GAMMA, PRKM12, SAPK-3, SAPK3.

**Description:**Mitogen-activated protein kinase 12, also known as 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 Weight:**44.1 kDa (387aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMSSPPPARSGFYRQEVTKTAWEVRAVYRDLQPVGSGAYGAVCSAVDGRTGAKV  
AIKKLYRPFQSELEAKRAYRELRLKHMRENHENVIGLLDVFTPDETLDLDFDFYLVMPFMGTDLGKLMKHEKLGEDRI  
QFLVYQMLKGLRYIHAAGIIHRDLKPGNLAVNEDCELKILDFGLARQADSEMTGYVVTRWYRAPEVILNWMRYTQTV  
DIWSVGCIMAEMITGKTLFKGSDHLDQLKEIMKVTGTPPAEFVQRLQSDEAKNYMKGLPELEKKDFASILTNASPLA  
VNLLKMLVLDAEQRVTAGEALAHYPYFESLHDTEDPQVQKYDDSFDDVDRTLDEWKRVTYKEVLSFKPPRQLGA  
RVSKETPL

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.