

Product information

MAPK12, 1-367aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1313

Full name: Mitogen-activated protein kinase 12

NCBI Accession No.: NP_002960

Synonyms: ERK3, ERK6, P38GAMMA, PRKM12, SAPK-3, SAPK3

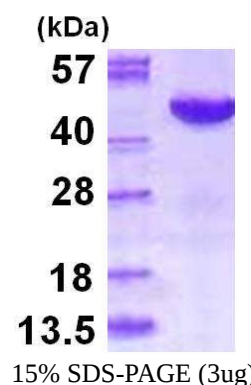
Description: Mitogen-activated protein kinase 12, also known as MAPK12, belongs to the MAP kinase family. MAPK12 functions as a signal transducer during differentiation of myoblasts to myotubes. Expressed in different areas throughout the body with common expression patterns in heart, p38 proteins use magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins. Recombinant human MAPK12 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

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

Purity: > 95% by SDS - PAGE

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



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MSSPPPARSG FYRQEVTKTA WEVRAVYRDL QPVGSGAYGA VCSAVDGRGTG AKVAIKKLYR PFQSELEFAKR
AYRELRLKKH MRHENVIGLL DVFTPDETLD DFTDFYLVMP FMGTDLGKLM KHEKLGEDRI QFLVYQMLKG LRYIHAAGII HRDLKPGNLA
VNEDCELEKIL DFGLARQADS EMTGYVVTWR YRAPEVILNW MRYTQTVDIW SVGCIMAEMI TGKTLFKGSD HLDQLKEIMK VTGTPPAEFV
QRLQSDAEKN YMKGLPELEK KDFASILTNA SPLAVNLLEK MLVLDAEQRV TAGEALAHYPY FESLHDEDE PQVQKYDDSF DDVORTLDEW
KRVTYKEVLS FKPPRQLGAR VSKETPL

General references:

Han J., *et al.* (1995) *Biochim Biophys Acta.* 1265:224-227.

Court N W., *et al.* (2002) *J Mol Cell Cardiol.* 34:413-426.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.