

MAPK14, 1-360aa, Human, His tag, E.coli

Cat.NO.: TP02904

3th Edition

Synonyms:Mitogen-activated protein kinase 14, CSBP, CSBP1, CSBP2, CSPB1, EXIP, Mxi2, p38, p38ALPHA, PRKM14, PRKM15, RK, SAPK2A.

Description:MAPK14 (Mitogen-activated protein kinase 14) is a member of the MAP kinase family. MAPK14 is most closely related to p38 MAP kinases(MAPKs). MAPKs are activated primarily in response to inflammatory cytokines and cellular stress, and inhibitors which target the MAPK14 and MAPK11 have shown potential for the treatment of inflammatory disease. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stressrelated transcription and cell cycle regulation, as well as in genotoxic stress response.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

Molecular Weight:43.7kDa (383aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMQERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCAAFDTKTGLRV
AVKKLSRPFQSIIHAKRTYRELRLKHKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQ
FLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNQTVDI
WSVGCIMAELLTGRTLFPGTDHIDQLKLILRLVGTPGAELLKKISSESARNYIQSLTQMPKMNANVFIGANPLAVDLL
EKMLVLDSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDEVISFVPPPLDQEEMES

Purity:> 95% by HPLC

Concentration:0.5mg/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.