

**MAPK1, 1-360aa, Human, His tag, E.coli**

**Cat.NO.: TP02900**

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3th Edition

**Synonyms:**Mitogen-activated protein kinase 1, ERK, ERK2, ERT1, MAPK2, p38, p40, p41, p41mapk, P42MAPK, PRKM1, PRKM2

**Description:**MAPK1, also known as ERK(extracellular signal-regulated kinase), acts as an integration point for multiple biochemical signals, and is involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT 10% glycerol

**Molecular Weight:**43.5 kDa (380aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMAAAAAGAGPEMVRGQVFDVGPRTNLSYIGEGAYGMVCSAYDENVKVRVAI  
KKISPFEHQTYCQRTLREIKILLRFRHENIIGINDIIRAPTIEQMKDVYIVQDLMETDLYKLLKTQHLSNDHICYFLYQILR  
GLKYIHSANVLHRDLKPSNLLLNTTCDLKICDFGLARVADPDHDHTGFLTEYVATRWRAPPEIMLNSKGYTKSIDIWS  
VGCILAEMLSNRPIFPKGKHYLDQLNHILGILGSPSQEDLNCIINLKARNYLLSLPHKNKVPWNRLFPNADSKALDLLDK  
MLTFNPHKRIEVEQALAHPLYEQYYDPSDEPIAEAPFKFDMELDDLPEKLEKELIFEETARFQPGYRS

**Purity:**> 95% by HPLC

**Concentration:**1 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.