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32-3046: MAPK1 Recombinant Protein

Alternative Name :	Mitogen-activated protein kinase 1,EC 2.7.11.24,Extracellular signal-regulated kinase 2,ERK-2,Mitogen-activated protein kinase 2,MAP kinase 2,MAPK 2,p42-MAPK,ERT1,ERK,p38,p40,p41,ERK2,MAPK2,PRKM1,PRKM2,P42MAPK,p41mapk.

Description

Source : Escherichia Coli. MAPK1 Recombinant (extracellular signal-regulated kinase) a Mitogen-Activated Protein Kinase, is a highly active form produced by phosphorylation of the purified ERK2/MAPK1 in vitro with MEK1 is a non-glycosylated polypeptide having a molecular mass of 44.6 kDa. MAPK1 is purified by proprietary chromatographic techniques. Mitogen-activated protein kinase 1 (MAPK1) is also known as 'extracellular signal-regulated kinase 2' (ERK2). Two similar (85% sequence identity) protein kinases were originally called ERK1 and ERK2. They were found during a search for protein kinases that are rapidly phosphorylated after activation of cell surface tyrosine kinasessuch as the epidermal growth factor receptor. Phosphorylation of ERKs leads to the activation of their kinase activity.The molecular events linking cell surface receptors to activation of ERKs are complex. It was found that RasGTP-binding proteins are involved in the activation of ERKs. Another protein kinase, Raf-1, was shown to phosphorylate a 'MAPK kinase', thus qualifying as a 'MAPK kinase kinase'. The MAPK kinase was named 'MAPK/ERK kinase' (MEK). Receptor-linked tyrosine kinases, Ras, Raf, MEK and MAPK could be fitted into a signaling cascade linking an extracellular signal to MAPK activation.Transgenic gene knockoutmice lacking MAPK1 have major defects in early development.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	MAPK1 is supplied containing 50mM Tris-HCL, 150mM NaCl, 2mM DTT, pH 8.0, 100 Units*/mg.
Storage condition :	MAPK1 should be stored at 4°C if entire vial will be used within 2-4 weeks. For long term it is recommended to store at -20°C. Avoid multiple freeze-thaw cycles.