

Recombinant Human MAPK10

Cat. No. MAPK10-27604TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length protein, inactive (Human)

Species Human

Source E.coli

Description

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This protein is a neuronal-specific form of c-Jun N-terminal kinases (JNKs). Through its phosphorylation and nuclear localization, this kinase plays regulatory roles in the signaling pathways during neuronal apoptosis. Beta-arrestin 2, a receptor-regulated MAP kinase scaffold protein, is found to interact with, and stimulate the phosphorylation of this kinase by MAP kinase kinase 4 (MKK4). Cyclin-dependent kinase 5 can phosphorylate, and inhibit the activity of this kinase, which may be important in preventing neuronal apoptosis. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

Tissue specificity

Specific to a subset of neurons in the nervous system. Present in the hippocampus and areas, cerebellum, striatum, brain stem, and weakly in the spinal cord. Very weak expression in testis and kidney.

Form Liquid

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Storage buffer	Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	MAPK10 mitogen-activated protein kinase 10 [Homo sapiens]
Official Symbol	MAPK10
Synonyms	MAPK10; mitogen-activated protein kinase 10; PRKM10; JNK3; p54bSAPK; p493F12;
Gene ID	5602
mRNA Refseq	NM_002753
Protein Refseq	NP_002744
MIM	602897
Uniprot ID	P53779
Chromosome Location	4q22-q23

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Pathway

Activated TLR4 signalling, organism-specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Apoptosis, organism-specific biosystem;

Function

ATP binding; JUN kinase activity; MAP kinase activity; MAP kinase kinase activity; nucleotide binding;

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