

Recombinant Human MAPK10 Protein (M1-S423), His tagged

Cat. No. MAPK10-1141H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human 6His-TEV-JNK3(M1-S423) Protein was expressed in E. coli.

Species Human

Source E.coli

ProteinLength M1-S423

Description

Serine/threonine-protein kinase involved in various processes such as neuronal proliferation, differentiation, migration and programmed cell death. Extracellular stimuli such as pro-inflammatory cytokines or physical stress stimulate the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. In this cascade, two dual specificity kinases MAP2K4/MKK4 and MAP2K7/MKK7 phosphorylate and activate MAPK10/JNK3. In turn, MAPK10/JNK3 phosphorylates a number of transcription factors, primarily components of AP-1 such as JUN and ATF2 and thus regulates AP-1 transcriptional activity. Plays regulatory roles in the signaling pathways during neuronal apoptosis. Phosphorylates the neuronal microtubule regulator STMN2. Acts in the regulation of the amyloid-beta precursor protein/APP signaling during neuronal differentiation by phosphorylating APP. Participates also in neurite growth in spiral ganglion neurons. Phosphorylates the CLOCK-ARNTL/BMAL1 heterodimer and plays a role in the photic regulation of the circadian clock. Phosphorylates JUND and this phosphorylation is inhibited in the presence of MEN1.

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Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	MAPK10 mitogen-activated protein kinase 10 [Homo sapiens (human)]
Official Symbol	MAPK10
Synonyms	MAPK10; mitogen-activated protein kinase 10; PRKM10; JNK3; p54bSAPK; p493F12; MAPK 10; MAP kinase 10; MAP kinase p49 3F12; JNK3 alpha protein kinase; c-Jun N-terminal kinase 3; stress-activated protein kinase 1b; stress activated protein kinase beta; stress-activated protein kinase JNK3; JNK3A; SAPK1b; FLJ12099; FLJ33785; MGC50974;
Gene ID	5602
mRNA Refseq	NM_002753

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Protein Refseq [NP_002744](#)

MIM [602897](#)

UniProt ID [P53779](#)

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