

Recombinant Human MAPK10 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAPK10-4539H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAPK10 MS Standard C13 and N15-labeled recombinant protein (NP_620448) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as integration points for multiple biochemical signals, and thus are involved in a wide variety of cellular processes, such as proliferation, differentiation, transcription regulation and development. This kinase is specifically expressed in a subset of neurons in the nervous system, and is activated by threonine and tyrosine phosphorylation. Targeted deletion of this gene in mice suggests that it may have a role in stress-induced neuronal apoptosis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon.
Molecular Mass	52.4 kDa
AA Sequence	MSLHFLYYCSEPTLDVKIAFCQGFDKQVDVSYIAKHYNMSKSKVDNQFYVSVEVGDS TFTVLKRYQNLKPIGSGAQGIVCAAYDAVLDRNVAIKKLSRPFQNQTHAKRAYRELVL

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MKCVNHKNIISLLNVFTPQKTLEEFQDVYLVMEMLMDANLCQVIQMELDHERMSYLLY
 QMLCGIKHLHSAGIIHRDLKPSNIVVKSDCTLKILDFGLARTAGTSFMMTPYVVTRY
 RAPEVILGMGYKENVDIWSVGCIMGEMVRHKILFPGRDYIDQWNKVIEQLGTPCPEF
 MKKLQPTVRNYVENRPKYAGLTFPKLFPDSLFPADSEHNKLKASQARDLLSKMLVID
 PAKRISVDDALQHPYINVWYDPAEVEAPPPQIYDKQLDEREHTIEEWKELIYKEVMNS
 EEKTKNGVVKGPSPSGAAVNSSSESLPPSSSVNDISSMSTDQTLASDTDSSEASA
 GPLGCCRTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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;

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Gene ID	5602
mRNA Refseq	NM_138982
Protein Refseq	NP_620448
MIM	602897
UniProt ID	P53779
SDS-PAGE	