

# Recombinant Full Length Human MAPK14 Protein, C-Flag-tagged

Cat. No. MAPK14-1305HFL    Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Recombinant Full Length Human MAPK14 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

### Species

Human

### Source

Mammalian Cells

### 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 kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

### Form

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

### Molecular Mass

41.3 kDa

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 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>AA Sequence</b>	<p>MSQERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCAAFDTKTGLRVAVKKLS  RPFQSIHAKRTYR ELRLKHKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLN  NIVKCQKLTDDHVQFLIYQILRGLKY IHSADIIHRDLKPSNLAVNEDCELKILDFGLARH  TDDEMTGYVATRWRAP EIMLNWMHYNQTVDIWSVG CIMAELLTGRTLFPGTDHIN  QLQQIMRLTGTPPAYLINRMPSHEARNYIQSLTQMPKMN FANVFIGANPL AVDLLEK  MLVLDSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDE  VISFVP  PPLDQEEMESTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways</b>	Amyotrophic lateral sclerosis (ALS), Epithelial cell signaling in Helicobacter pylori infection, Fc epsilon RI signaling pathway, GnRH signaling pathway, Leukocyte transendothelial migration, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, VEGF signaling pathway

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**Full Length**

Full L.

**GENE INFORMATION****Gene Name**

MAPK14 mitogen-activated protein kinase 14 [ Homo sapiens (human) ]

**Official Symbol**

MAPK14

**Synonyms**

RK; p38; CSBP; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; p38ALPHA

**Gene ID**

1432

**mRNA Refseq**

NM\_001315.3

**Protein Refseq**


NP\_001306.1

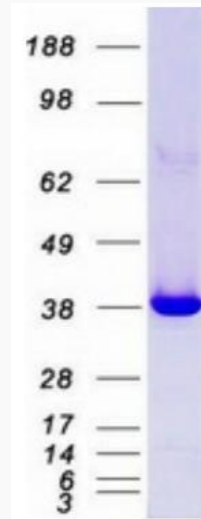
**MIM**

600289

**UniProt ID**

Q16539

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Coomassie blue staining of purified MAPK14 protein.

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