

Recombinant Human MAPK14, Inactive, His-tagged

Cat. No. MAPK14-178H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	E.coli
Description	<p>N-terminal His-tagged full-length protein. p38α/SAPK2a belongs to the family of mitogen-activated protein kinases (MAPK). Mitogen-activated protein (MAP) kinases comprise a family of ubiquitous proline-directed, proteinserine/ threonine kinases, which participate in signal transduction pathways that control intracellular events including cute responses to hormones and major developmental changes in organisms. p38α/SAPK2a was discovered independently in three contexts. It was found as a tyrosine phosphoprotein present in extracts of cells treated with inflammatory cytokines; as the target of a pyridinyl imidazole drug that blocked production of tumor necrosis factor-α(TNFα) and as such was called cytokine-suppressive anti-inflammatory drug-binding protein or CSBP; and as a reactivating kinase for MAP kinase-activated protein (MAPKAP) kinase- 2. A variety of agents including cytokines, hormones, GPCRs, osmotic and heat shock, and other stresses activate p38 family members. The recombinant human p38_ kinase (SAPK2a) was expressed in <i>E. coli</i> and purified by Ni-agarose chromatography. MW = 42.7 kDa.</p>
Form	Supplied in 25 mM Tris-HCl pH 8.5, 150 mM NaCl, 1 mM DTT and 50% glycerol.
Purity	> 95% by SDS-PAGE.
Usage	For in vitro use only.

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Storage Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name [MAPK14 mitogen-activated protein kinase 14 \[Homo sapiens \]](#)

Synonyms MAPK14; mitogen-activated protein kinase 14; RK; p38; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; p38ALPHA; p38 MAP kinase; p38alpha Exip; MAP kinase Mxi2; Csaids binding protein; MAX-interacting protein 2; stress-activated protein kinase 2A; p38 mitogen activated protein kinase; cytokine suppressive anti-inflammatory drug binding protein; EC 2.7.11.24; Mitogen-activated protein kinase p38 alpha; CSAID-binding protein MAP kinase p38 alpha; MAP kinase MXI2; CSBP; MXI2

Gene ID [1432](#)

mRNA Refseq [NM_001315](#)

Protein Refseq [NP_001306](#)

MIM [600289](#)

UniProt ID [Q16539](#)

Chromosome Location 6p21.3-p21.2

Pathway 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; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like

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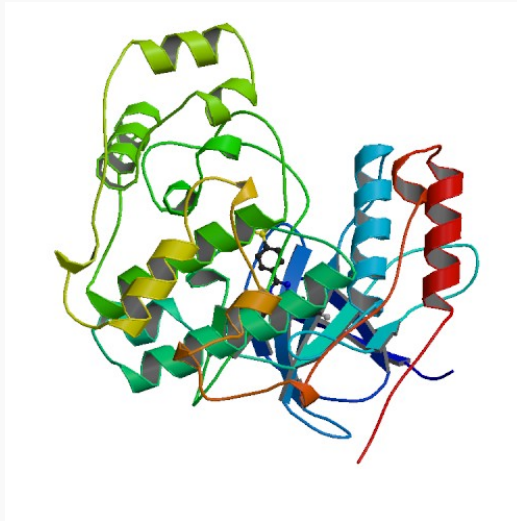
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receptor signaling pathway; VEGF signaling pathway; Signalling by NGF

Function

ATP binding; MAP kinase activity; MAP kinase kinase activity; MP kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; transferase activity

PDB rendering based on 1a9u.



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