

Recombinant Human MAPK14, Inactive, His-tagged

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

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

N-terminal His-tagged full-length protein. p38 α /SAPK2 α 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. p38 α /SAPK2 α 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 (TNF α) 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 (SAPK2 α) was expressed in *E. coli* and purified by Ni-agarose chromatography. MW = 42.7 kDa.

Form Supplied in 25 mM Tris-HCl pH 8.5, 150 mM NaCl, 1 mM DTT and 50% glycerol.

Purity > 95% by SDS-PAGE.

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Usage	For in vitro use only.
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

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transendothelial migration; MAPK signaling pathway; Neurotrophin signaling pathway; RIG-I-like receptor signaling pathway; T cell receptor signaling pathway; Toll-like 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.

