

Recombinant Human Mitogen-Activated Protein Kinase 13, His-tagged

Cat. No. MAPK13-1285H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAPK13 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	MAPK13, also known as mitogen-activated protein kinase 13, 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. It is a related protein that is phosphorylated by MKK6 in response to cytokines and cellular stresses.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl, 1mM DTT
Molecular Weight	44.2 kDa (385aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	1.0 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSLIRKKGFY KQDVNKTAW E LPKTYVSPTH VGSGAYGSVC SAIDKRSGEK VAIKKLSRPF QSEIFAKRAY RELLLLKHMQ HENVIGLLDV FTPASSLRNF YDFYLVMPFM QTDLQKIMG M EFSEEKIQYL

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VYQMLKGLKY IHSAGVVHRD LKPGNLAVNE DCELKILDFG LARHADAEMT
 GYVVTRWYRA PEVILSWMHY NQTVDIWSVG CIMAEMLTGK TLFKGDYLD
 QLTQILKVTG VPGTEFVQKL NDKAAKSYIQ SLPQTPRKDF TQLFPRASPQ
 AADLLEKMLE LDVDKRLTAA QALTHPFFEP FRDPEEETEA QQPFDSDLEH
 EKLTVDEWKQ HIYKEIVNFS PIARKDSRRR SGMKL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

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 receptor signaling pathway; VEGF signaling pathway; Signalling by NGF

GENE INFORMATION

Gene Name

MAPK13 mitogen-activated protein kinase 13 [Homo sapiens]

Official Symbol

MAPK13

Synonyms

MAPK13; mitogen-activated protein kinase 13; SAPK4; PRKM13; MGC99536; p38delta; stress-activated protein kinase 4; mitogen-activated protein kinase p38 delta; mitogen activated protein kinase 13; EC 2.7.11.24

Gene ID

5603

mRNA Refseq

NM_002754

Protein Refseq

NP_002745

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MIM	602899
UniProt ID	O15264
Chromosome Location	6p21.31
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

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