

Recombinant Human MAPK13, His-tagged

Cat. No. MAPK13-31379TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SAPK4 with an N terminal His tag; 385 amino acids with tag, Predicted MWt 44.2 kDa.
Species	Human
Source	E.coli
ProteinLength	365 amino acids
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 closely related to p38 MAP kinase, both of which can be activated by proinflammatory cytokines and cellular stress. MAP kinase kinases 3, and 6 can phosphorylate and activate this kinase. Transcription factor ATF2, and microtubule dynamics regulator stathmin have been shown to be the substrates of this kinase.
Conjugation	HIS
Molecular Weight	44.200kDa inclusive of tags
Tissue specificity	Expressed in testes, pancreas, small intestine, lung and kidney. Abundant in macrophages, also present in neutrophils, CD4+ T-cells, and endothelial cells.

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.58% Sodium chloride, 0.02% DTT
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMSLIRKKGFYKQDVNKTAWELPKTYVSPTHVGSGA YGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLLLKHMQHENVIGLLDVFTP ASSLRNFYDFYLVMPFMQTDLQKIMGMEFSEEKIQYLVYQMLKGLKYIHSAGVVHRD LKPGNLAVNEDCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDI WSVGCIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGTEFVQKLNDKAAKSYIQSLP QTPRKDFTQLFPRASPQAADLLEKMLELDVDKRLTAAQALTHPFFEPFRDPEEETEA QQPFDDSLSEHEKLTVDEWKQHIYKEIVNFSPARKDSRRRRSGMKL
Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
GENE INFORMATION	
Gene Name	MAPK13 mitogen-activated protein kinase 13 [Homo sapiens]
Official Symbol	MAPK13
Synonyms	MAPK13; mitogen-activated protein kinase 13; PRKM13; p38delta; SAPK4;
Gene ID	5603

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mRNA Refseq	NM_002754
Protein Refseq	NP_002745
MIM	602899
Uniprot ID	O15264
Chromosome Location	6p21
Pathway	Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Cell-Cell communication, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;
Function	ATP binding; MAP kinase activity; MAP kinase activity; nucleotide binding; protein binding;