

# Recombinant Human Mitogen-activated Protein Kinase 13

Cat. No. MAPK13-737H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human p38-delta, full length, amino acids M1-L365, activated, untagged, was expressed in <i>E.coli</i> . MW = 42,430 Da.
<b>Species</b>	Human
<b>Source</b>	<i>E.coli</i>
<b>Protein Length</b>	1-365 a.a.
<b>Description</b>	P38 $\delta$ (SAPK4) is a member of the p38 MAPK family and is activated by chemical and environmental stresses as well as by proinflammatory cytokines. P38 $\delta$ has a TGY dual phosphorylation motif and is activated in response to cellular stresses and proinflammatory cytokines. 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.
<b>Purification</b>	GST-Affinity Chromatography.
<b>Activation</b>	with MKK6-S207D/T211D.
<b>Product Identity</b>	p38-delta was confirmed as p38-delta by mass spectroscopy LCESI-MS/MS.
<b>Storage Buffer</b>	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol.
<b>Concentration</b>	0.468 $\mu$ g/ $\mu$ l (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as

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	standard protein).
<b>Specific Activity</b>	481 pmol/μg×min.
<b>Storage</b>	-80°C. Avoid repeated freeze-thaw cycles!
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	MAPK13 mitogen-activated protein kinase 13 [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	5603
<b>mRNA Refseq</b>	NM_002754
<b>Protein Refseq</b>	NP_002745
<b>MIM</b>	602899
<b>UniProt ID</b>	O15264
<b>Chromosome Location</b>	6p21.31
<b>Pathway</b>	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

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