

Recombinant Human Mitogen-activated Protein Kinase 13

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

SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name	MAPK13 mitogen-activated protein kinase 13 [Homo sapiens]
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
MIM	602899
UniProt ID	O15264
Chromosome Location	6p21.31
Pathway	Amyotrophic lateral sclerosis (ALS); Epithelial cell signaling in Helicobacter pylori infection; Fc epsilon RI signaling pathway; GnRH signaling pathway; Leukocyte

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA