Recombinant Human Mitogen-activated Protein Kinase 11

Cat. No. MAPK11-734H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human p38-beta, full length, amino acids M1-Q364, activated, untagged, was expressed in*E. coli.*MW = 41,485 Da.
Species	Human
Source	E.coli
ProteinLength	38-b a.a.
Description	P38β is a member of the p38 MAP kinase family and is activated by both proinflammatory cytokines and environmental stress. The p38β is activated through its phosphorylation by MAP kinase kinases (MKKs), preferably by MKK6. Transcription factor ATF2/CREB2 has been shown to be a substrate of this kinase. Alternatively spliced transcript variants encoding the same protein have been observed.
Purification	Immobilized Metal Affinity Chromatography.
Product Identity	p38-beta was confirmed as p38-beta by mass spectroscopy LCESI-MS/MS (Protagen AG, Germany).
Activation	With MKK6 SDTD (GenBank accession No.: NM_002758.2).
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 3 mM βME, 20% glycerol.

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Concentration	0.810 μg/μl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
Specific Activity	701 pmol/μg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
Full Length	Full L.

GENE INFORMATION

Gene Name	MAPK11 mitogen-activated protein kinase 11 [Homo sapiens]
Synonyms	MAPK11; mitogen-activated protein kinase 11; P38B; SAPK2; p38-2; PRKM11; SAPK2B; p38Beta; P38BETA2; OTTHUMP00000196655; stress-activated protein kinase-2; stress-activated protein kinase-2b; mitogen-activated protein kinase p38-2; mitogen-activated protein kinase p38 beta; EC 2.7.11.24
Gene ID	5600
mRNA Refseq	NM_002751
Protein Refseq	NP_002742
MIM	602898
UniProt ID	Q15759
Chromosome Location	22q13.33

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Pathway	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
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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