

Recombinant Human Mitogen-activated Protein Kinase 12

Cat. No. MAPK12-738H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human p38-gamma, full length, amino acids M1-L367, activated, untagged, was expressed in <i>E.coli</i> . MW = 42,352 Da.
Species	Human
Source	<i>E.coli</i>
ProteinLength	1-367 a.a.
Description	P38 γ is a member of the p38 MAPK family which is activated in response to stress. p38 γ gene was mapped to 22q13.3 and functions as a signal transducer during differentiation of myoblasts to myotubes. Enforced localization of p38 γ in the nucleus or cytoplasm markedly attenuates the ability of the kinase to induce cell cycle arrest in fibroblasts. p38 γ increases basal glucose uptake and decreases DNP- and contraction-stimulated glucose uptake, partially by affecting levels of glucose transporter expression in skeletal muscle.
Purification	GST-Affinity Chromatography.
Activation	with MKK6-S207D/T211D.
Product Identity	p38-gamma was confirmed as p38-gamma by mass spectroscopy LC-ESI-MS/MS.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 20% glycerol.

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Concentration	0.165 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
Specific Activity	59 pmol/µg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
Full Length	Full L.

GENE INFORMATION

Gene Name	MAPK12 mitogen-activated protein kinase 12 [Homo sapiens]
Synonyms	MAPK12; mitogen-activated protein kinase 12; ERK3; ERK6; SAPK3; PRKM12; SAPK-3; P38GAMMA; stress-activated protein kinase 3; mitogen-activated protein kinase 3; EC 2.7.11.24
Gene ID	6300
mRNA Refseq	NM_002969
Protein Refseq	NP_002960
MIM	602399
UniProt ID	P53778
Chromosome Location	22q13.33
Pathway	Amyotrophic lateral sclerosis (ALS); Epithelial cell signaling in Helicobacter pylori

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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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