

Recombinant Human Mitogen-Activated Protein Kinase Kinase Kinase Kinase 4, GST-tagged

Cat. No. MAP4K4-1042H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP4K4 (1-328) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-328 a.a.
Description	MAP4K4 is the mitogen-activated protein kinase kinase kinase kinase 4(MAP4K4) and a member of the serine/threonine protein kinase family. MAP4K4 has been shown to specifically activate MAPK8/JNK. The activation of MAPK8 by MAP4K4 can be inhibited by dominant-negative mutants of MAP3K7/TAK1, MAP2K4/MKK4, and MAP2K7/MKK7, which suggest that this kinase functions through the MAP3K7-MAP2K4-MAP2K7 kinase cascade and mediates TNF- α signaling. MAP4K4-dependent signaling inhibits PPAR γ -responsive gene expression, adipogenesis, and insulin-stimulated glucose transport.
Applications	Kinase Assay; Western Blot
Molecular Weight	64 kDa
Expression System	Sf9 insect cells using baculovirus.

 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

Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Specific Activity:	54 nmol/min/mg
Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	1-328
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Ceramide signaling pathway; Direct p53 effectors; EPHB forward signaling; Insulin Signaling; MAPK signaling pathway; TNF receptor signaling pathway

GENE INFORMATION

Gene Name	MAP4K4 mitogen-activated protein kinase kinase kinase 4 [Homo sapiens]
Official Symbol	MAP4K4
Synonyms	MAP4K4; mitogen-activated protein kinase kinase kinase 4; HGK; NIK; FLH21957; FLJ10410; FLJ20373; FLJ90111; KIAA0687; MEKKK 4; MEK kinase kinase 4; nck-interacting kinase; HPK/GCK-like kinase HGK; MAPK/ERK kinase kinase kinase 4; hepatocyte progenitor kinase-like/germinal center kinase-like kinase; EC=2.7.11.1; OTTHUMP00000207902; OTTHUMP00000207903; OTTHUMP00000207971; OTTHUMP00000207972; OTTHUMP00- 000207973; OTTHUMP00000207974

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Gene ID	9448
mRNA Refseq	NM_004834
Protein Refseq	NP_004825
MIM	604666
UniProt ID	O95819
Chromosome Location	2q11.2-q12
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; small GTPase regulator activity

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