

Active Recombinant Mouse Map2k1, GST-tagged

Cat. No. Map2k1-666M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse MEK1 (S218E, S222E) was expressed in E. coli cells using a N-terminal GST tag.
Species	Mouse
Source	E.coli
ProteinLength	Full Length
Description	MEK1 (EE) is a member of the dual specificity protein kinase family that acts as a mitogen-activated protein kinase (MAPK) kinase. MEK1 lies upstream of MAPK/ERK and stimulates the enzymatic activity of MAPK/ERK upon a wide variety of extra- and intracellular signals. As an essential component of MAPK/ERK signal transduction pathway, MEK1 is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development. Constitutive activation of MEK1 results in cellular transformation. Thus, MEK1 represents a likely target for pharmacologic intervention in proliferative disease such as cancer.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	326 nmol/min/mg
Molecular Mass	~69 kDa

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Purity	>70%
Applications	Kinase Assay, Western Blot
Stability	1 yr at -70°C from date of shipment.
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.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	Map2k1 mitogen-activated protein kinase kinase 1 [Mus musculus (house mouse)]
Official Symbol	Map2k1
Synonyms	Map2k1; mitogen-activated protein kinase kinase 1; Mek1; MEKK1; MAPKK1; Prkmk1; dual specificity mitogen-activated protein kinase kinase 1; MEK 1; MAPKK 1; MAPK/ERK kinase 1; MAP kinase kinase 1; ERK activator kinase 1; mitogen activated protein kinase kinase 1; protein kinase, mitogen activated, kinase 1, p45; NP_032953.1; EC 2.7.12.2
Gene ID	26395
mRNA Refseq	NM_008927
Protein Refseq	NP_032953
UniProt ID	P31938

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Chromosome Location	9 C; 9 34.55 cM
Pathway	ARMS-mediated activation; Activated TLR4 signalling; Acute myeloid leukemia; Androgen Receptor Signaling Pathway
Function	ATP binding; MAP kinase kinase activity; mitogen-activated protein kinase kinase binding

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