

Recombinant Human MAP2K7 Protein, GST-tagged

Cat. No. MAP2K7-8085H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MAP2K7 protein was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
Description	Mitogen-activated protein kinase 7 (MKK7 or MEK7) is a dual-specificity protein kinase of the STE7 family. Directly phosphorylates the Thr-Pro-Tyr motif located in the activation loop of JNK1/2 and activate the kinases in response to environmental stress, pro-inflammatory cytokines or developmental cues. The activation of MKK7 is mediated by various MAPKKs, including mixed lineage protein kinases (MLKs) and MAPK/ERK kinase (MEK) kinase (MEKK1).
Molecular Mass	~78 kDa
Purity	> 70%
Applications	Kinase Assay, Western Blot
Storage	Store product at –70 centigrade. 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

 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

Storage Buffer

50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

GENE INFORMATION
Gene Name

MAP2K7

Official Symbol

MAP2K7 mitogen-activated protein kinase kinase 7 [Homo sapiens (human)]

Synonyms

MAP2K7; mitogen-activated protein kinase kinase 7; MEK; MKK7; JNKK2; MEK 7; MAPKK7; PRKMK7; SAPKK4; SAPKK-4; dual specificity mitogen-activated protein kinase kinase 7; JNK-activating kinase 2; MAP kinase kinase 7; MAPK/ERK kinase 7; SAPK kinase 4; c-Jun N-terminal kinase kinase 2; stress-activated protein kinase kinase 4; EC 2.7.12.2

Gene ID

5609

mRNA Refseq

NM_145185

Protein Refseq

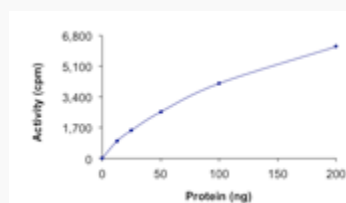
NP_660186

MIM

603014

UniProt ID

O14733

Specific Activity


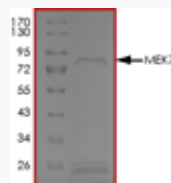
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The specific activity of MEK7 was determined to be 2 nmol/min/mg

Purity



The purity of MEK7 was determined to be >70% by densitometry approx.