Recombinant Human MAP2K3, His-tagged

Cat. No. MAP2K3-29204TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MEK3, with an N terminal His tag; 338 amino acids with a predicted MWt 38.3kDa including tag corresponding to the full length isoform 1 or fragment of isoform 3
Species	Human
Source	E.coli
ProteinLength	328 amino acids
Description	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersina pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene.
Conjugation	HIS
Molecular Weight	38.300kDa inclusive of tags

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

Tissue specificity	Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, pH 8
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSKPPAPNPTPPRNLDSRTF ITIGDRNFEV EADDLVTISE LGRGAYGVVEKVRHAQSGTI MAVKRIRATV NSQEQKRLLM DLDINMRTVDCFYTVTFYGA LFREGDVWIC MELMDTSLDK FYRKVLDKNMTIPEDILGEI AVSIVRALEH LHSKLSVIHR DVKPSNVLIN KEGHVKMCDF GISGYLVDSV AKTMDAGCKP YMAPERINPELNQKGYNVKS DVWSLGITMI EMAILRFPYE SWGTPFQQLKQVVEEPSPQL PADRFSPEFV DFTAQCLRKN PAERMSYLELMEHPFFTLHK TKKTDIAAFV KEILGEDS
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	MAP2K3 mitogen-activated protein kinase kinase 3 [Homo sapiens]
Official Symbol	MAP2K3
Synonyms	MAP2K3; mitogen-activated protein kinase kinase 3; PRKMK3; dual specificity mitogen-activated protein kinase kinase 3; dual specificity mitogen activated protein

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

	kinase kinase 3; MAP kinase kinase 3; MAPK/ERK kinase 3; MAPKK3; MEK3; MKK3;
Gene ID	5606
mRNA Refseq	NM_002756
Protein Refseq	NP_002747
MIM	602315
Uniprot ID	P46734
Chromosome Location	17q11.2
Pathway	Activated TLR4 signalling, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; CDC42 signaling events, organism-specific biosystem; CXCR3-mediated signaling events, organism-specific biosystem;
Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein kinase binding;

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