Recombinant Human MAP2K3, His-tagged

Cat. No. MAP2K3-794H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MAP2K3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.(1-318aa)
Species	Human
Source	E.coli
Description	MAP2K3, also known as dual specificity mitogen-activated protein kinase kinase 3, 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.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSKPPAPNPT PPRNLDSRTF ITIGDRNFEV EADDLVTISE LGRGAYGVVE KVRHAQSGTI MAVKRIRATV NSQEQKRLLM DLDINMRTVD CFYTVTFYGA LFREGDVWIC MELMDTSLDK FYRKVLDKNM TIPEDILGEI AVSIVRALEH LHSKLSVIHR DVKPSNVLIN KEGHVKMCDF GISGYLVDSV AKTMDAGCKP YMAPERINPE LNQKGYNVKS DVWSLGITMI EMAILRFPYE SWGTPFQQLK QVVEEPSPQL PADRFSPEFV DFTAQCLRKN PAERMSYLEL MEHPFFTLHK TKKTDIAAFV KEILGEDS
Formulation	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol
Purity	90% by SDS - PAGE

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Molecular Weight	38.3 kDa (338aa), confirmed by MALDI-TOF
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	MAP2K3 mitogen-activated protein kinase kinase 3 [Homo sapiens]
Synonyms	MEK3; MKK3; MAPKK3; MAP2K3; MAP kinase kinase 3;PRKMK3;EC 2.7.12.2; dual specificity mitogen-activated protein kinase kinase 3; mitogen activated protein kinase kinase 3; OTTHUMP00000166044; MAPK/ERK kinase 3;
Gene ID	5606
mRNA Refseq	NM_002756
Protein Refseq	NP_002747
MIM	602315
UniProt ID	P46734
Chromosome Location	17q11.2
Function	ATP binding; MAP kinase kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein tyrosine kinase activity; transferase activity

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