Recombinant Human MAP2K5

Cat. No. MAP2K5-29560TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MEK5 with N terminal proprietary tag; predicted MWt 75.02 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	448 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 specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been described.
Molecular Weight	75.020kDa inclusive of tags
Tissue specificity	Expressed in many adult tissues. Abundant in heart and skeletal muscle.
Form	Liquid
Purity	Proprietary Purification

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	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MLWLALGPFPAMENQVLVIRIKIPNSGAVDWTVHSGPQLL FRDVLDVIGQVLPEATT TAFEYEDEDGDRITVRSDEEMKA MLSYYYSTVMEQQVNGQLIEPLQIFPRACKPPG ERNIHGL KVNTRAGPSQHSSPAVSDSLPSNSLKKSSAELKKILANGQ MNEQDIRYR DTLGHGNGGTVYKAYHVPSGKILAVKVILLD ITLELQKQIMSELEILYKCDSSYIIGFYG AFFVENRISIC TEFMDGGSLDVYRKMPEHVLGRIAVAVVKGLTYLWSLKIL HRDVKP SNMLVNTRGQVKLCDFGVSTQLVNSIAKTYVGTN AYMAPERISGEQYGIHSDVWSL GISFMELALGRFPYPQIQ KNQGSLMPLQLLQCIVDEDSPVLPVGESSEPFVHFITQC M RKQPKERPAPEELMGHPFIVQFNDGNAAVVSMWVCRALEE RRSQQGPP
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.Contains 1 OPR domain.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	MAP2K5 mitogen-activated protein kinase kinase 5 [Homo sapiens]
Official Symbol	MAP2K5
Synonyms	MAP2K5; mitogen-activated protein kinase kinase 5; PRKMK5; dual specificity mitogen-activated protein kinase kinase 5; HsT17454; MAPKK5; MEK5;
Gene ID	5607
mRNA Refseq	NM_001206804
Protein Refseq	NP_001193733

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

MIM	602520
Uniprot ID	Q13163
Chromosome Location	15q22.31
Pathway	EGFR1 Signaling Pathway, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Gap junction, organism-specific biosystem; Gap junction, conserved biosystem;
Function	ATP binding; MAP kinase activity; metal ion binding; nucleotide binding; protein 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