

Recombinant Full Length Human MAP2K5 Protein

Cat. No. MAP2K5-295HF **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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	75.020kDa inclusive of tags
AA Sequence	MLWLALGPPFAMENQVLVIRIKIPNSGAVDWTVHSGPQLL FRDVLDVIGQVLPEATT TAFEYEDEDGDRITVRSDEEMKA MLSYYYSTVMEQQVNGQLIEPLQIFPRACKPPG ERNIHGL KVNTRAGPSQHSSPAVSDSLPSNSLKKSSAELKKILANGQ MNEQDIRYR DTLGHGNGGTVYKAYHVP SGKILAVKVILLD ITLELQKQIMSELEILYKCDSSYIIGFYG

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AFFVENRISIC TEFMDGGSLDVYRKMP EHLVGRIAVAVVKGLTYLWSLKIL HRDVKP
 SNMLVNTRGQVKLCDFGVSTQLVNSIAKTYVGTN AYMAPERISGEQYGIHSDVWSL
 GISFMELALGRFPYPQIQ KNQGSLMPLQLLQCIVDEDSPVLPVGESSEPFVHFITQC
 M RKQPKERPAPPEELMGHPFIVQFNDGNAAVVSMWVCRALEE RRSQQGPP

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

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

MIM 602520

UniProt ID Q13163

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