

Product datasheet for **AR09939PU-N**

MAP2K3 (1-318, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	MAP2K3 (1-318, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SGLVPRGSH</u> MSKPPAPNPT PPRNLDSTRF ITIGDRNFEV EADDLVTISE LGRGAYGVVE KVRHAQSGTI MAVKRIRATV NSQEQKRLLM DLDINMRTVD CFYTVTFYGA LFREGDVWIC MELMDTSLDK FYRKVLKDNM TIPEDILGEI AVSIVRALEH LHSKLSVIHR DVKPSNVLIN KEGHVKMCDF GISGYLVDSV AKTMDAGCKP YMAPERINPE LNQKGYNVKS DVWSLGITMI EMAILRFPYE SWGTPFQQLK QVVEEPPQL PADRFSPFV DFTAQCLRKN PAERMSSYLEL MEHPFFTLHK TKKTDIAAFV KEILGEDS
Tag:	His-tag
Predicted MW:	38.3 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human MAP2K3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001303261</u>
Locus ID:	5606
UniProt ID:	<u>P46734</u>
Cytogenetics:	17p11.2
Synonyms:	MAPKK3; MEK3; MKK3; PRKMK3; SAPKK-2; SAPKK2



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Summary:

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. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome, Protein Kinase, Transcription Factors

Protein Pathways:

Amyotrophic lateral sclerosis (ALS), Fc epsilon RI signaling pathway, GnRH signaling pathway, MAPK signaling pathway, Toll-like receptor signaling pathway

Product images: