

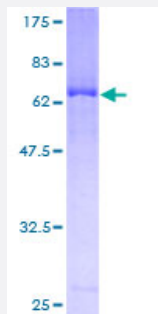
Full-Length

MAP2K3 (Human) Recombinant Protein (P01)

Catalog # H00005606-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAP2K3 full-length ORF (AAH32478, 1 a.a. - 347 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MESPASSQPASMPQSKGKSKRKDLRISCMSKPPAPNPTPPRNLDSTFTITIGDRNFEVEADDL
VTISELGRGAYGVVEKVRHAQSGTIMAVKRIRATVNSQEQKRLMLDLDINMRTVDCFYTVTFYGALF
REGDVWICMELMDTSLDKFYRKVLDKNMTIPEDILGEIAVSIVRALEHLHSLSVIHRDVKPSNVLIN
KEGHVKMCDFGISGYLVDSVAKTMDAGCKPYMAPERINPELNQKGYNVKSDVWSLGITMIEMAIL
RFPYESWGTPFQQLKQVVEEPSQLPADRFSPFEVDFTAQCLRKNPAERMSYLELMEHPFFTLH
KTKKTDIAAFVKEILGEDS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.91

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MAP2K3

Entrez GeneID [5606](#)

GeneBank Accession# [BC032478](#)

Protein Accession# [AAH32478](#)

Gene Name MAP2K3

Gene Alias MAPKK3, MEK3, MKK3, PRKMK3

Gene Description mitogen-activated protein kinase kinase 3

Omim ID [602315](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP 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 Yersinia pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene. [provided by RefSeq]

Other Designations

MAP kinase kinase 3|MAPK/ERK kinase 3|OTTHUMP00000166044|dual specificity mitogen activated protein kinase kinase 3

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Ec epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Toll-like receptor signaling pathway](#)