

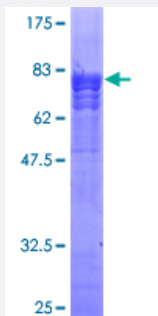
Full-Length

MAP3K7IP1 (Human) Recombinant Protein (P01)

Catalog # H00010454-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAP3K7IP1 full-length ORF (AAH50554.1, 1 a.a. - 504 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAQRRLQSEQQPSWTDDLPLCHLSGVGSASNRSYSADGKGTESHPPEDSWLKFRSENNC
FLYGVFNQYDGNRVTNFVAQRLSAELLGQLNAEHAADVRRVLLQAFDVVERSFLIESIDDALAE
KASLQSQLPEGVPQHQLPPQYQKILERLKTLEISGGAMAVVAVLLNNKLYVANVGTRALLCK
STVDGLQVTQLNVDHTTENEDFLRLSQLGLDAGKIKQVGICGQESTRRIGDYKVKYGYTDIDLLS
AAKSKPIAEPEIHGAQPLDGVTGFLVLMSEGLYKALEAAHGPGQANQEIAAMIDTEFAKQTS�DAV
AQAVVDRVKRIHSDTFASGGERARFCPRHEDMTLLVRNFGYPLGEMSQPTSPAPAAGGRVYP
VSVPYSSAQSTSKTSVTLVMPSSQGMVNGAHSASTLDEATPTLTNQSPTLTQSTNTHTQSSS
SSSDGGFLFRSRPAHSLPPGEDGRVEPYVDFAEFYRLWSVDHGEQSVVTAP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

81.18

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 — MAP3K7IP1

Entrez GeneID[10454](#)**GeneBank Accession#**[BC050554](#)**Protein Accession#**[AAH50554.1](#)**Gene Name**

MAP3K7IP1

Gene Alias

3'-Tab1, MGC57664, TAB1

Gene Description

mitogen-activated protein kinase kinase kinase 7 interacting protein 1

Omim ID[602615](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK 14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

TAK1-binding protein 1|transforming growth factor beta-activated kinase-binding protein 1

Pathway

- [MAPK signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Crohn Disease](#)