

# Recombinant human MKK6 protein

Catalog Number: ATGP4041

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

1-334aa

### UniProt No.

P52564

### NCBI Accession No.

NP\_002749

### Alternative Names

Dual specificity mitogen-activated protein kinase kinase 6, MAPKK6, MEK6, MKK6, PRKMK6, SAPKK-3, SAPKK3, Dual specificity mitogen-activated protein kinase kinase 6 isoform1, MAP2K6, MAP kinase kinase 6, MAPK/ERK kinase 6, SAPK kinase 3, SKK3

## PRODUCT SPECIFICATION

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### Molecular Weight

38.3 kDa (340aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

MKK6, also known as dual specificity mitogen-activated protein kinase kinase 6, is a member of the dual specificity protein kinase family, which functions as a mitogen-activated protein (MAP) kinase kinase. MAP

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kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein phosphorylates and activates p38 MAP kinase in response to inflammatory cytokines or environmental stress. As an essential component of p38 MAP kinase mediated signal transduction pathway, this gene is involved in many cellular processes such as stress-induced cell cycle arrest, transcription activation and apoptosis. Recombinant human MKK6, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

MSQSKGKKRN PGLKIPKEAF EQPQTSSTPP RDLDSKACIS IGNQNFEVKA DDLEPIMELG RGAYGVVEKM RHVPSGQIMA  
VKRIRATVNS QEQKRLMLDL DISMRTVDCP FVTTFYGALF REGDVVICME LMDTSLDKFY KQVIDKGQTI PEDILGKIAV  
SIVKALEHLH SKLSVIHRDV KPSNVLINAL GQVKMCDFGI SGYLVDSVAK TIDAGCKPYM APERINPELN QKGYSVKSDI  
WSLGITMIEL AILRFPYDSW GTPFQQLKQV VEEPSPQLPA DKFSAEFVDF TSQCLKNSK ERPTYELMQ HPFFTLHESK  
GTDVASFVKL ILGD<HHHHHH>

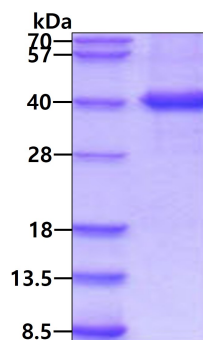
## General References

Chen Z, et al (2001) J Biol Chem. 276(19):16070-16075.

Raingaud J, et al (1996) Mol Cell Biol. 16:1247-1255.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain