

# Recombinant human MKK6 protein

Catalog Number: ATGP2942

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

53-314aa

### UniProt No.

P52564

### NCBI Accession No.

NP\_002749

### Alternative Names

Mitogen-activated protein kinase kinase 6, Mitogen-activated protein kinase kinase 6, MEK6, MKK6, MAPKK6, PRKMK6, SAPKK3

## PRODUCT SPECIFICATION

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### Molecular Weight

32.0 kDa (383aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

MAP2K6 is a member of the dual specificity protein kinase family, which functions as a mitogen-activated protein (MAP) kinase kinase. MAP 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, MAP2K6 is involved in many cellular processes such as stress induced

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cell cycle arrest, transcription activation and apoptosis. Recombinant human MAP2K6, fused to His-tag at N-terminus, was expressed in E. coli.

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MLEPIMELGR GAYGVVEKMR HVPSGQIMAV KRIRATVNSQ EQRLLMDLD  
ISMRTVDCPF TVTFYGALFR EGDVWICMEL MDTSLDKFYK QVIDKGQTIP EDILGKIAVS IVKALEHLHS KLSVIHRDVK  
PSNVLINALG QVKMCDFGIS GYLVDEVAKE IDAGCKPYMA PERINPELNQ KGYSVKSDIW SLGITMIELA ILRFPYDSWG  
TPFQQLKQVV EEPSPQLPAD KFSAEFVDFT SQCLKKNSKE RPTYPELMQH PFF

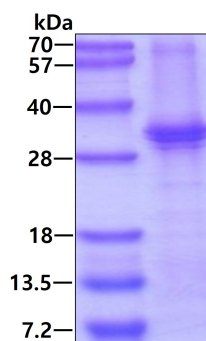
### General References

Manning G., et al. (2002) Science 298 (5600): 1912-34

Pearson G., et al. (2002) Endocr. Rev. 22 (2): 153-83

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.