

# Recombinant human MKK3 protein

Catalog Number: ATGP0999

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-318aa

### UniProt No.

P46734

### NCBI Accession No.

NP\_002747.2

### Alternative Names

Dual specificity mitogen-activated protein kinase kinase 3, MAPKK3, MEK3, MKK3, PRKMK3

## PRODUCT SPECIFICATION

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### Molecular Weight

38.3 kDa (338aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 90% by SDS-PAGE

### 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

MAP2K3, also known as dual specificity mitogen-activated protein kinase kinase 3, 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. Recombinant human MAP2K3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

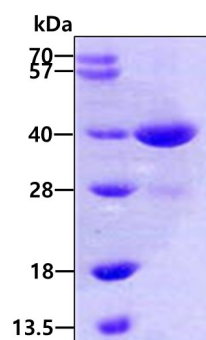
<MGSSHHHHH SSGLVPRGSH> MSKPPAPNPT PPRNLDSRTF ITIGDRNFEV EADDLVTISE LGRGAYGVVE KVRHAQSGTI  
MAVKRIRATV NSQEQKRLLM DLDINMRTVD CFYTVTFYGA LFREGDVWIC MELMDTSLDK FYRKVLKDNM TIPEDILGEI  
AVSIVRALEH LHSKLSVIHR DVKPSNVLIN KEGHVKMCDF GISGYLVDSV AKTMDAGCKP YMAPERINPE LNQKGYNVKS  
DVWSLGITMI EMAILRFPYE SWGTPFQQLK QVVEEPPQL PADRFSPFV DFTAQCLRKN PAERMSYLEL MEHPFFTLHK  
TKKTDIAAFV KEILGEDS

## General References

Rampoldi L., et al. (1997) Cytogenet Cell Genet. 78(3-4):301-3.  
Barr AJ., et al. (2002) Biochem Biophys Res Commun. 293(1):647-52.

## DATA

### SDS-PAGE



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