

Recombinant human MKK3 protein

Catalog Number: ATGP0999

PRODUCT INFORMATION

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

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

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

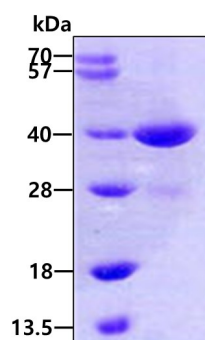
<MGSSHHHHHH SSGLVPRGSH> MSKPPAPNPT PPRNLDSRTF ITIGDRNFEV EADDLVTISE LGRGAYGVVE KVRHAQSGTI
MAVKRIRATV NSQEQKRLM DLDINMRTVD CFYTVTFYGA LFREGDVWIC MELMDTSLDK FYRKVLKDNM TIPEDILGEI
AVSIVRALEH LHSKLSVIHR DVKPSNVLIN KEGHVKMCDF GISGYLVDSV AKTMDAGCKP YMAPERINPE LNQKGYNVKS
DVWSLGITMI EMAILRFPYE SWGTPFQQLK QVVEEPSQL 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



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