

Recombinant human MAPKAPK3 protein

Catalog Number: ATGP1805

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-382aa

UniProt No.

Q16644

NCBI Accession No.

NP_004626

Alternative Names

MAP kinase-activated protein kinase 3, 3PK, MAPKAP-K3, MAPKAP3, MAPKAPK-3, MK-3

PRODUCT SPECIFICATION

Molecular Weight

45.4 kDa (405aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT

Purity

> 95% 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

MAP kinase-activated protein kinase 3, also known as MAPKAPK3, is involved in inflammatory response by regulating tumor necrosis factor (TNF) and IL6 production post-transcriptionally: acts by phosphorylating Au-rich elements (AREs) -binding proteins, such as TTP/ZFP36, leading to regulate the stability and translation of TNF and IL6 mRNAs. Phosphorylation of TTP/ZFP36, a major post-transcriptional regulator of TNF, promotes its binding to 14-3-3 proteins and reduces its ARE mRNA affinity leading to inhibition of dependent degradation of ARE-containing transcript. Recombinant human MAPKAPK3 protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMDGETAE EQGGPVPPPV APGGPGLGGA PGGRRPEPKY AVTDDYQLSK
QVLGLGVNGK VLECFHRRTG QKCALKLLYD SPKARQEVHD HWQASGGPHI VCILDVYENM HHGKRCLLII MECMEGGELF
SRIQERGDQA FTEREAAEIM RDIGTAIQFL HSHNIAHRDV KPENLLYTSK EKDAVLKLTG FGFAKETTQN ALQTPCYTPY
YVAPEVLGPE KYDKSCDMWS LGVIMYILLC GFPPFYSNTG QAISPGMKRR IRLGQYGFPN PEWSEVSEDA KQLIRLLLKT
DPTERTITQ FMNHPWINQS MVVPQTPLHT ARVLQEDKDH WDEVKEEMTS ALATMRVDYD QVKIKDLKTS NNRLLNKRRK
KQAGSSSASQ GCNNQ

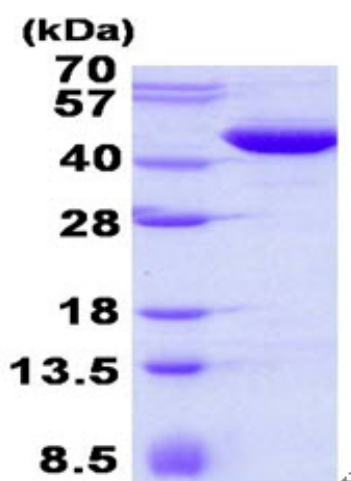
General References

Voncken J.W., et al. (2005) J. Biol. Chem. 280:5178-5187

Mendoza H., et al. (2008) Biochem. J. 409:711-722

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug).