

Recombinant human JNK3/MAPK10 protein

Catalog Number: ATGP3837

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-464aa

UniProt No.

P53779

NCBI Accession No.

NP_620448

Alternative Names

Mitogen-activated protein kinase 10, MAPK10, JNK3, JNK3A, p493F12, p54bSAPK, PRKM10, SAPK1b

PRODUCT SPECIFICATION

Molecular Weight

53.4 kDa (470aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT, 0.1mM PMSF

Purity

> 85% 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

Description

MAPK10, also known as mitogen-activated protein kinase 10, is a member of the MAP kinase family. This group of protein kinases includes at least 10 members that interact selectively with ATF2, Jun and Elk-i transcription factors. It acts as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This protein is

Recombinant human JNK3/MAPK10 protein

Catalog Number: ATGP3837

a neuronal-specific form of c-Jun N-terminal kinases (JNKs). Through its phosphorylation and nuclear localization, this kinase plays regulatory roles in the signaling pathways during neuronal apoptosis. Also, expression of multiple JNK isoforms provides a mechanism for the generation of tissue-specific responses to the activation of the JNK signal transduction pathway. Recombinant human MAPK10, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

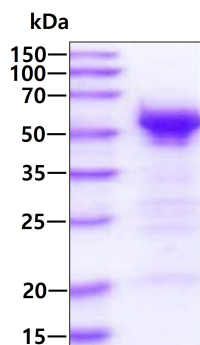
MSLHFLYYCS EPTLDVKIAF CQGFDKQVDV SYIAKHYNMS KSKVDNQFYS VEVGDSTFTV LKRYQNLKPI GSGAQGIVCA
AYDAVLDRNV AIKKLSRPFQ NQTHAKRAYR ELVLMKCVNH KNIISLLNVF TPQKTLEEFQ DVYLVMEMLMD ANLCQVIQME
LDHERMSYLL YQMLCGIKHL HSAGIIHRDL KPSNIVVKSD CTLKILDFGL ARTAGTSFMM TPYVVTRYR APEVILGMGY
KENVDIWSVG CIMGEMVRHK ILFPGRDYID QWNKVIEQLG TPCPEFMKKL QPTVRNYVEN RPKYAGLTFP KLPDLSLFA
DSEHNKLKAS QARDLLSKML VIDPAKRISV DDALQHPYIN VWYDPAEVEA PPPQIYDKQL DEREHTIEEW KELIYKEVMN
SEEKTKNGVV KGQPSPSGAA VNSSESLPPS SSVNDISSMS TDQTLASDTD SSLEASAGPL GCCR<HHHHHH>

General References

Mohit AA., et al, (1995) Neuron 14:67-78.
Gupta S., et al, (1996) EMBO J. 15:2760-2770.

DATA

SDS-PAGE



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