

Recombinant human p38 beta/MAPK11 protein

Catalog Number: ATGP1299

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-364aa

UniProt No.

Q15759

NCBI Accession No.

NP_002742.3

Alternative Names

Mitogen-activated protein kinase 11, p38-2, P38B, p38Beta, P38BETA2, PRKM11, SAPK2, SAPK2B

PRODUCT SPECIFICATION

Molecular Weight

43.7 kDa (387aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl

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

MAPK11 (Mitogen-activated protein kinase 11) is a member of the MAP kinase family. This kinase is most closely related to p38 MAP kinases (MAPKs). MAPKs are activated primarily in response to inflammatory cytokines and cellular stress, and inhibitors which target the MAPK14 and MAPK11 have shown potential for the treatment of inflammatory disease. MAPK11 has been shown to interact with HDAC3 and Promyelocytic leukemia protein. This kinase involved in a signal transduction pathway that is activated by changes in the osmolarity of the extracellular environment, by cytokines, or by environmental stress. Recombinant human MAPK11 protein, fused

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MSGPRAG FYRQELNKTV WEVPQRLQGL RPYGSGAYGS VCSAYDARLR
QKVAVKKLSR PFQSLIHARR TYRELRLKH LKHENVIGLL DVFTPATSI DFSEVYLVTT LMGADLNNIV KCQALSDEHV
QFLVYQLLRG LKYIHSAGII HRDLKPSNVA VNEDCELRIL DFGLARQADE EMTGYVATRW YRAPEIMLNW MHYNQTVDIW
SVGCIMAELL QGKALFPGSD YIDQLKRIME VVGTPSPEVL AKISSEHART YIQSLPPMPQ KDLSSIFRGA NPLAIDLLGR
MLVLDSDQRV SAAEALAHAY FSQYHDPED PEAEPYDESV EAKERTLEEW KELTYQEVLS FKPPEPPKPP GSLEIEQ

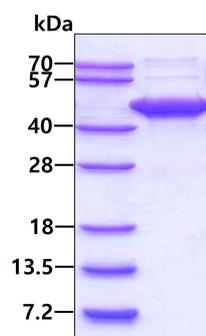
General References

Beardmore VA, et al. (2005) Mol Cell Biol. 25(23):10454-64.

Mahlknecht u, et al. (2004) J Immunol. 173(6):3979-90.

DATA

SDS-PAGE



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