Recombinant human p38 alpha/MAPK14 protein

Catalog Number: ATGP1300

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-360aa

UniProt No.
Q16539

NCBI Accession No.
NP_620581

Alternative Names
Mitogen-activated protein kinase 14, CSBP, CSBP1, CSBP2, CSPB1, EXIP, Mxi2, p38, p38ALPHA, PRKM14, PRKM15, RK, SAPK2A

PRODUCT SPECIFICATION

Molecular Weight
43.7 kDa (383aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% 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
MAPK14 (Mitogen-activated protein kinase 14) is a member of the MAP kinase family. MAPK14 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. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress-related

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transcription and cell cycle regulation, as well as in genotoxic stress response. Recombinant human MAPK14 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

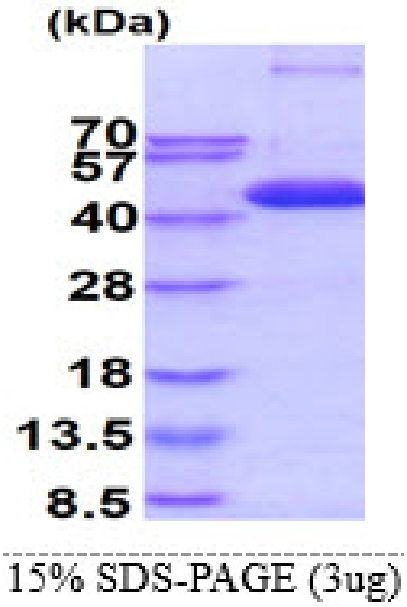
MGSSHHHHHH SSGLVPRGSH MGSMSQERPT FYRQELNKTI WEVPERYQNL SPVGSGAYGS VCAAFDTKTG LRVAVKKLSR PFQSIIHAKR TYRELRLLKH MKHENVIGLL DVFTPARSLE EFNDVYLVTH LMGADLNNIV KCQKLTDDHV QFLIYQILRG LKYIHSADII HRDLKPSNLA VNEDCELKIL DFGLARHTDD EMTGYVATRW YRAPEIMLNW MHYNQTVDIW SVGCIMAELL TGRTLFPGTD HIDQLKLILR LVGTPGAELL KKISSESARN YIQSLTQMPK MNFANVFIGA NPLAVDLLEK MLVLDSDKRI TAAQALAHAY FAQYHDPDDE PVADPYDQSF ESRDLLIDEW KSLTYDEVIS FVPPPLDQEE MES

General References

Beardmore VA, et al. (2005) Mol Cell Biol. 25(23):10454-64.
Chen, Z, et al (2001) J. Biol. Chem. (united States). 276 (19): 16070-5

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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