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**Product Data Sheet**


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Product Name: MAPK14 Human

Cat. No.: GP22555

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mitogen-activated protein kinase 14; Mitogen-activated protein kinase p38 alpha; CSBP1; CSBP2; Mxi2; PRKM14; MAP kinase p38 alpha; MAX-interacting protein 2; EXIP; PRKM15; p38; Cytokine suppressive anti-inflammatory drug-binding protein; MAP kinase MXI2; Stress-activated protein kinase 2a; RK; CSAID binding protein; p38alpha Exip; SAPK2A; EC 2.7.11; EC 2.7.11.24.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSQERPT FYRQELNKTI WEVPERYQNL SPVGSGAYGS VCAAFDTKTG LRVAVKKLSR PFQSIIHAKR TYRELRLKKH MKHENVIGLL DVFTPARSLE EFNDVYLVTH LMGADLNNIV KCQKLTDDHV QFLIYQILRG LKYIHSADII HRDLKPSNLA VNEDCELKIL DFGLARHTDD EMTGYVATRW YRAPEIMLNW MHYNQTVDIW SVGCIMAELL TGRTLFPDGTD HIDQLKLILR LVGTPGAELL KKISSESARN YIQSLTQMPK MNFANVFIGA NPLAVDLLEK MLVLDSDKRI TAAQALAHAY FAQYHDPDDE PVADPYDQSF ESRDLLIDEW KSLTYDEVIS FVPPPLDQEE MES.		
Formulation	MAPK14 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 1mM DTT, 100mM NaCl and 10% glycerol.		

**Introduction**

MAPK14 belongs to the MAP kinase family and is most associated with p38 MAP kinases (MAPKs). MAPKs are activated mainly as a reaction to cellular stress and inflammatory cytokines, and inhibitors that target the MAPK14 and MAPK11 have demonstrated ability to cure inflammatory disease. The substrates of this kinase contain transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which demonstrate the parts of MAPK14 in stress-related transcription, cell cycle regulation and genotoxic stress response.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MAPK14 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 383 amino acids (1-360 a.a.) and having a molecular mass of 43.7kDa. MAPK14 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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