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**Product Data Sheet**


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Product Name: MAPK11 Human  
 Cat. No.: GP22552  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mitogen-activated protein kinase 11; PRKM11; SAPK2; p38-2; p38Beta; Mitogen-activated protein kinase p38 beta; Stress-activated protein kinase 2b; SAPK2B; MAP kinase 11; MAP kinase p38 beta; MAPK 11; P38BETA2; mitogen-activated protein kinase p38-2; EC 2.7.11; EC 2.7.11.24.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSGPRAG FYRQELNKTW WEVPQRLQGL RPVGSGAYGS VCSAYDARLR QKVAVKLSR PFQSLIHARR TYRELRLLKH LKHENVIGLL DVFTPATSIE DFSEVYLVT LMGADLNNIV KCQALSDEHV QFLVYQLLRG LKYIHSAGII HRDLKPSNVA VNEDCELRIL DFGLARQADE EMTGYVATRW YRAPEIMLNW MHYNQTVDIW SVGCIMAELL QGKALFPGSD YIDQLKRIME VVGTPSPEVL AKISSEHART YIQSLPPMPQ KDLSSIFRGA NPLAIDLLGR MLVLDSQQRV SAAEALAHAY FSQYHDPED PEAEPYDES EAKERTLEEW KELTYQEVLS FKPPEPPKPP GSLEIEQ.		
Formulation	MAPK11 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 2mM DTT, 100mM NaCl and 20% glycerol.		

**Introduction**

MAPK11 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. MAPK11 cooperates with HDAC3 and Promyelocytic leukemia protein and takes part in a signal transduction pathway which is activated by alterations in the osmolarity of the extracellular environment, by environmental stress, or by cytokines.

**Stability**

**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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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

MAPK11 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 387 amino acids (1-364 a.a.) and having a molecular mass of 43.8kDa. MAPK11 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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