
Product Data Sheet

Product Name: MAP2K1 Human

Cat. No.: GP22543

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MAP2K1; MEK1; PRKMK1; MKK1; MAPKK 1; MAP kinase kinase 1.		
Amino Acid Sequence	ADPMPKKKPT PIQLNPAPDG SAVNGTSSAE TNLEALQKKL EELELDEQQR KRLEAFLTQK QKVGELKDDD FEKISELGAG NGGVVFKVSH KPSGLVMARK LIHLEIKPAI RNQIIRELQV LHECNSPYIV GFYGAFYSDG EISICMEHMD GGSLDQVLKK AGRYPEQILG KVSIAVIKGL TYLREKHKIM HRDVKPSNIL VNSRGEIKLC DFGVSGQLID SMANSFVGTR SYMSPERLQG THYSVQSDIW SMGLSLVEMA VGRYPIPPPD AKELELMFGC QVEGDAAETP PRPRTPGRPL SSYGMDSRPP MAIFELLDYI VNEPPPKLPS GVFSLEFQDF VNKCLIKNPA ERADLKQLMV HAFIKRSDAE EVDFAGWLCS TIGLNQPSTP THAAGVHHHH HH.		
Formulation	MAP2K1 protein solution (0.25mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

Introduction

The MAP2K1 protein is encoded by the MAP2K1 gene. This enzyme serves as a MAP (mitogen activated protein) kinase, it is a part of the dual specificity protein kinase family. Extracellular signal-regulated kinases such as MAP kinases has an important role in assimilation of various biochemical signals. MAP2K1 is located upstream to the MAP kinases and activates them by multiple intra and extracellular signals. The enzyme serves as a key factor in the signal transduction pathway of MAP kinase, therefore it takes part in the cell development (transcription regulation, proliferation, differentiation etc.).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

MAP2K1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 402 amino acids (1-393a.a.) and having a molecular mass of 44.5kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). MAP2K1 is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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