
Product Data Sheet

Product Name: MAPKAPK3 Human
 Cat. No.: GP22560
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	3PK; MAPKAP-K3; MAPKAP3; MAPKAPK-3; MK-3; MAP kinase-activated protein kinase 3; MAPK-activated protein kinase 3; MAPKAP kinase 3;MAPKAPK-3; MK-3;MAPKAPK3.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDGETAE EQGGVPPPV APGGPGLGGA PGGRREPKEY AVTDDYQLSK QVLGLGVNGK VLECFHRRTG QKCALKLLYD SPKARQEVHD HWQASGGPHI VCILDVYENM HHGKRCLLI MECMEGGELF SRIQERGDQA FTERRAAEIM RDIGTAIQFL HSHNIAHRDV KPENLLYTSK EKDAVLKLTG FGFAKETTQN ALQTPCYTPY YVAPEVLGPE KYDKSCDMWS LGVIMYILLC GFPPFYSNTG QAISPGMKRR IRLGQYGFNP PEWSEVEDA KQLIRLLLKT DPTERTITQ FMNHPWINQS MVVPQTPLHT ARVLQEDKDH WDEVKEEMTS ALATMRVDYD QVKIKDLKTS NNRLLNKRRK KQAGSSASQ GCNNQ.		
Formulation	MAPKAPK3 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 20% glycerol and 1mM DTT.		

Introduction

MAP kinase-activated protein kinase 3 (MAPKAPK3) is involved in inflammatory Reaction by regulating tumor necrosis factor (TNF) and IL6 production post-transcriptionally. MAPKAPK3 phosphorylates AU-rich elements (AREs)-binding proteins, like TTP/ZFP36, leading to control of stability and translation of TNF and IL6 mRNAs. Phosphorylation of TTP/ZFP36 (a major post-transcriptional regulator of TNF), promotes its binding to 14-3-3 proteins and reduces its ARE mRNA affinity resulting in inhibition of dependent degradation of ARE-containing transcript. MAPKAPK3 is activated by growth inducers and stress stimulation of cells.

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

Product Data Sheet

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

MAPKAPK3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 405 amino acids (1-382 a.a) and having a molecular mass of 45.4kDa. MAPKAPK3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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