

MAPKAPK3, 1-382aa, Human, His tag, E.coli

Cat.NO.: TP02908

3th Edition

Synonyms:MAP kinase-activated protein kinase 3, 3PK, MAPKAP-K3, MAPKAP3, MAPKAPK-3, MK-3

Description:MAP kinase-activated protein kinase 3, also known as MAPKAPK3, is involved in inflammatory response by regulating tumor necrosis factor (TNF) and IL6 production post-transcriptionally: acts by phosphorylating AU-rich elements (AREs)-binding proteins, such as TTP/ZFP36, leading to regulate the 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 leading to inhibition of dependent degradation of ARE-containing transcript.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 1mM DTT

Molecular Weight:45.4 kDa (405aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMGDGETAEEQGGPVPPPVPAGGPGGLGGAPGGRREPKKYAVTDDYQLSKQV
LGLGVNGKVLECFHRRTGQKCALKLLYDSPKARQEVDDHHWQASGGPHIVCILDVYENMHGKRCLLIIMECMEGG
ELFSRIQERGDQAFTEREAAEIMRDIGTAIQFLHSHNIAHRDVKPENLLYSKEKDAVLKLTDFGFAKETTQNALQTP
CYTPYYVAPEVLGPEKYDKSCDMWSLGVIMYILLCGFPFYSNTGQAISPGMKRRIRLGQYGFPNPEWSEVSEDAK
QLIRLLLKTDPTERLTITQFMNHPWINQSMVVPQTPLHTARVLQEDKDHWDDEVKEEMTSALATMRVDYDQVKIKDL
KTSNNRLLNKRRKKQAGSSSASQGCNNQ

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.