

## MAPKAPK3 Human

**Description:** 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.

**Catalog #:** PKPS-052

For research use only.

**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.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MGSM DGETAE EQGGPVPPP  
V APGGPGLGGA PGGRRPKKY AVTDDYQLSK QVLGLGVNGK VLECFHRRTG QKCALKLLYD  
SPKARQEV DH HWQASGGPHI VCILDVYENM HHGKRCLLI MECMEGGELF SRIQERGDQA  
FTERAAEIM RDIGTAIQFL HSHNIAHRDV KPNLLYTSK EKDAVLKLT DFGFAKETTQN  
ALQTPCYTPY YV

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

MAPKAPK3 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 20% glycerol and 1mM DTT.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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