Recombinant Human MAPKAPK3 Protein, His-tagged

Cat. No. MAPKAPK3-2422H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAPKAPK3 Protein (Asn161-Leu236) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asn161-Leu236
Description	This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation. Alternate splicing results in multiple transcript variants that encode the same protein.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 12.4 kDa

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	Accurate Molecular Mass: 14 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	MAPKAPK3 mitogen-activated protein kinase-activated protein kinase 3 [Homo sapiens (human)]
Official Symbol	MAPKAPK3
Synonyms	MAPKAPK3; mitogen-activated protein kinase-activated protein kinase 3; MAP kinase-activated protein kinase 3; 3pK; 3PK; MAPKAP3; MAPKAP kinase 3; chromosome 3p kinase; MAPK-activated protein kinase 3; MK-3; MAPKAP-K3; MAPKAPK-3;

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Gene ID	7867
mRNA Refseq	NM_001243925
Protein Refseq	NP_001230854
MIM	602130
UniProt ID	Q16644

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