

Recombinant Human MAPKAPK3/MK3 Kinase

Catalog No.: RP03337LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 7867 016644

Tags N-GST

Synonyms

MAPKAPK3; 3pK; MAP kinase-activated protein kinase 3

Product Information

Source Purification

Baculovirus-Insect ≥ 85% as

Cells determined by SDSPAGE;≥ 85% as

determined by
HPLC.

Calculated MW Observed MW

69.4 kDa 55-70 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Supplied as a 0.22 μ m filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact

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Background

MAP kinase-activated protein kinase 3 (MAPKAPK3) is a member of the Ser/Thr protein kinase family, and functions as a mitogen-activated protein kinase (MAP kinase)-activated protein kinase. MAPKAPK3 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. MAPKAPK3 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.

Basic Information

Description

Recombinant Human MAPKAPK3/MK3 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Asp2-Gln382) of Human MAPKAPK3 (Accession #Q16644) fused with a N-GST tag.

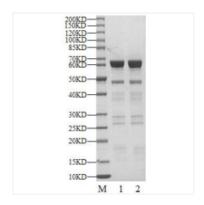
Bio-Activity

The activity of MAPKAPK3 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

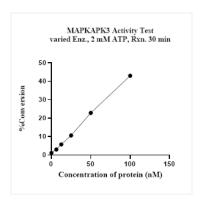
Storage

Store at -70°C. This product is stable at \leq -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.



Recombinant Human MAPKAPK3/MK3 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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