Recombinant Human MAPKAPK3/MK3 Kinase

Catalog No.: RP03337LQ

Sequence Information

Species
Human

Gene ID
7867

Swiss Prot
Q16644

Tags
N-GST

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

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 85% as determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW
69.4 kDa

Observed MW
55-70 kDa

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

Formulation
Supplied as a 0.22 μm 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.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

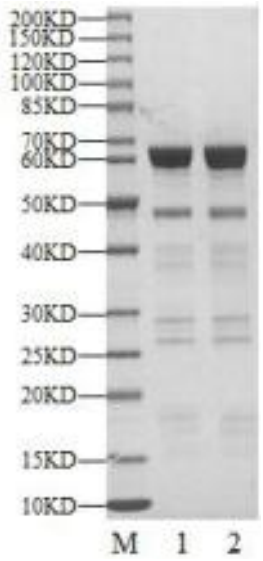
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

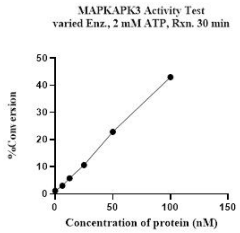
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Validation Data



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



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