Recombinant Human MKNK1 Kinase

Catalog No.: RP03438LQ

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Sequence Information

Species
Human

Gene ID
8569

Swiss Prot
Q9BUB5

Tags
N-GST

Synonyms
MKNK1; MNK1; MAPK signal-integrating kinase 1; MAP kinase-interacting serine/threonine-protein kinase 1

Product Information

Source
Baculovirus-Insect Cells

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

Calculated MW
73.9 kDa

Observed MW
60-80 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, 10% glycerol, 0.05% Brij, 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-interacting serine/threonine-protein kinase 1 is an enzyme that in humans is encoded by the MKNK1 gene. MKNK1 has been shown to interact with MAPK1 and Eukaryotic translation initiation factor 4 gamma. Humans have 2 genes encoding MNKs, Mknk1 and Mknk2, that encode the proteins MNK1 and MNK2, which differ in their regulation and other properties. MNK1 activity is tightly controlled by ERK and p38 MAP kinase signalling, and MNK2 displays high basal activity. The only validated in vivo MNK substrate is eukaryotic translation initiation factor (eIF4E), which it phosphorylates on Ser209.

Basic Information

Description
Recombinant Human MKNK1 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Leu424) of Human MKNK1 (Accession #Q9BUB5) fused with a N-GST tag.

Activity
The activity of MKNK1 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℃

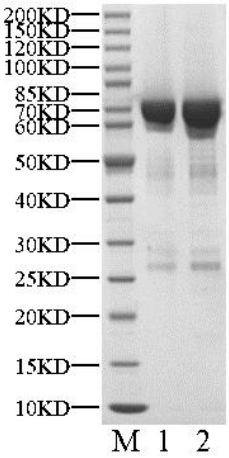
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

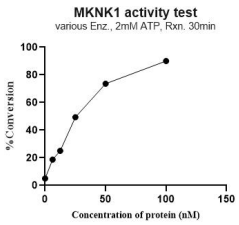
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Validation Data



Recombinant Human MKNK1 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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