

Catalog No.: RP03404LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	9261	P49137

No tag

MAPKAPK2; MK-2; MK2; MAP kinase-activated protein kinase 2

Source E. coli	Purification ≥ 85% as determined by SDS- PAGE; ≥ 85% as determined by HPLC.
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Calculated MW	Observed MW
37.4 kDa	30-40 kDa

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

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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MAP kinase-activated protein kinase 2 is an enzyme that in humans is encoded by the MAPKAPK2 gene. This gene encodes a member of the Ser/Thr protein kinase family. This kinase is regulated through direct phosphorylation by p38 MAP kinase. In conjunction with p38 MAP kinase, this kinase is known to be involved in many cellular processes including stress and inflammatory responses, nuclear export, gene expression regulation and cell proliferation. Heat shock protein HSP27 was shown to be its major direct substrate *in vivo*.

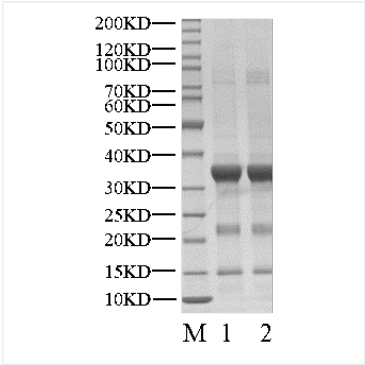
Recombinant Human MAPKAPK2/MK2 Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Gln41-Met363) of Human MAPKAPK2 (Accession #P49137) fused with No tag.

The activity of MAPKAPK2 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.

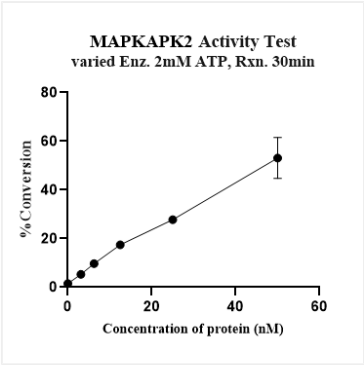
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

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

Validation Data



Recombinant Human MAPKAPK2/MK2 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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