

RP03454LQ

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# Recombinant Human MRCK beta/CDC42BPB Kinase

Catalog No.: RP03454LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Baculovirus- Insect Cells	9578	Q9Y5S2

### Tags

N-GST

### Synonyms

MRCK $\beta$ ; CDC42BPB; KIAA1124; CDC42-binding protein kinase beta; CDC42BP-beta; DMPK-like beta; MRCK beta; Myotonic dystrophy protein kinase-like beta; Serine/threonine-protein kinase MRCK beta

## Product Information

### Source

### Purification

≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

### Endotoxin

< 1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Supplied as a 0.22  $\mu$ m filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 5% glycerol. (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

CDC42 binding protein kinase beta is a protein that in humans is encoded by the CDC42BPB gene. This gene encodes a member of the serine/threonine protein kinase family. The encoded protein contains a Cdc42/Rac-binding p21 binding domain resembling that of PAK kinase. The kinase domain of this protein is most closely related to that of myotonic dystrophy kinase-related ROK. Studies of the similar gene in rats suggested that this kinase may act as a downstream effector of Cdc42 in cytoskeletal reorganization.

## Basic Information

### Description

Recombinant Human MRCK beta/CDC42BPB Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Gly473) of Human CDC42BPB (Accession #Q9Y5S2) fused with a N-GST tag.

### Bio-Activity

The activity of MRCK $\beta$  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

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Operational Notes

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

### Storage

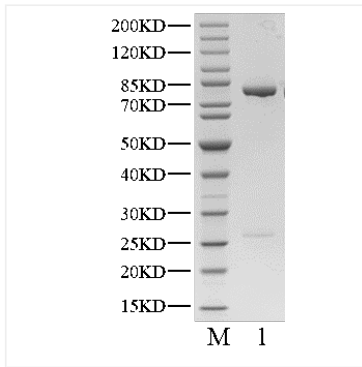
Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

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

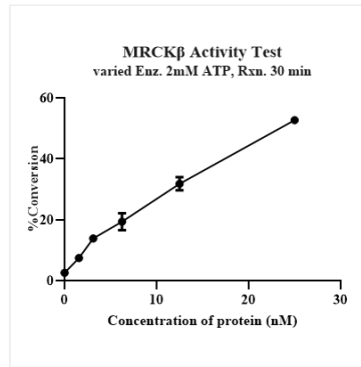
Avoid repeated freeze/thaw cycles.

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## Validation Data



Recombinant Human MRCK beta/CDC42BPB Kinase was resolved with SDS-PAGE under reducing (Lane 1) conditions.



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