

Human CDC42BPB Protein (His & GST Tag)

Catalog Number: 11540-H20B



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

MRCKB; MRCKb

Protein Construction:

A DNA sequence encoding the amino acid (Met 1-His 427) of human CDC42BPB (Q9Y5S2) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 94 % as determined by SDS-PAGE

Bio Activity:

No Kinase Activity

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human CDC42BPB/GST chimera consists of 709 amino acids and has a calculated molecular mass of 82.4 kDa. It migrates as an approximately 70 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM PBS, 500mM NaCl, 10% gly, 2mM GSH, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

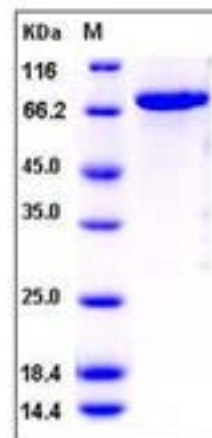
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CDC42BPB is a member of the serine / threonine protein kinase family that contains a Cdc42 / Rsc-binding p21 binding domain similar to that of PAK kinase. The kinase domain of this protein is related to the myotonic dystrophy kinase related ROK and this kinase may have functions in downstream regulating of Cdc42 in cytoskeletal recognition. It has been reported that the CDC42BPB protein take part in regulating numerous cellular functions by binding to members of a serine / threonine protein kinase subfamily. These functions include the remodeling of the cell cytoskeleton that is a feature of cell growth and differentiation.

References

1. Moncrieff CL, et al. (1999) Cloning and Chromosomal Localization of Human Cdc42-Binding Protein Kinase beta. *Genomics*. 57 (2): 297-300.
2. Boyd Y, et al. (2001) Orthologs of seven genes (AKT1, CDC42BPB, DIO3, EIF5, JAG2, KLC, NDUFB1) from human Chromosome 14q32 map to distal chicken Chromosome 5. *Mammalian Genome*. 13 (2): 120-2.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>