

Product Information

CDC42, GST/His-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5174**
Storage Temperature -70°C

Synonyms: G25K, CDC42Hs

Product Description

CDC42 is a member of the Rho family of GTPases and is part of cellular pathways fundamental to growth, differentiation, and apoptosis.¹ Downstream targets for CDC42 include those that regulate the actin cytoskeleton (e.g., WASP) and cellular stress pathways (e.g., PAK) as well as the coatomer protein complex and PAR6. CDC42 is involved in the G₁-S progression of the cell cycle. CDC42 and its downstream effector mDia3 are involved in bi-orientation and stabilization of spindle microtubules attachment to kinetochores and regulate chromosome alignment and segregation during mitosis.²

Recombinant, full length, human CDC42 was expressed in *E. coli* cells using a dual N-terminal GST/His tag. The gene accession number is NM_001791. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~48 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

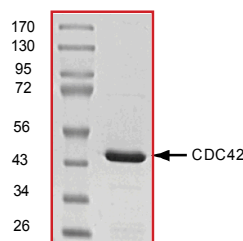
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Erickson, J.W. et al., Multiple roles for Cdc42 in cell regulation. *Curr. Opin. Cell Biol.*, **13(2)**, 153-7 (2001).
2. Narumya, S. et al., A new look at Rho GTPases in cell cycle: role in kinetochore-microtubule attachment. *Cell Cycle*, **3(7)**, 855-7 (2004).

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