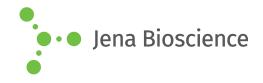
## **DATA SHEET**





## Cdc42 $\Delta C^{GST}$

Cell Division Cycle Protein 42, C-terminal deletion of 13 residues human, recombinant, *E. coli* 

Cat. No.	Amount
PR-302	50 μg

For general laboratory use.

Shipping: shipped on dry ice

Storage Conditions: store at -80 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

Molecular Weight: 19.8 kDa (178 amino acids)

Accession number: AF498962 Purity: > 90 % (SDS-PAGE)

Form: liquid (Supplied in 30 mM Tris-HCl pH 7.0 and 5 mM DTE)

## **Description:**

Rho family GTPases Rac1 and Cdc42 (cell division cycle 42) belong to the Ras superfamily of small GTP-binding proteins. The human homolog of yeast Cdc42 is essential for cell polarity and regulates cytoskeletal rearrangements in responses to growth factor stimulation. The C-terminal deletion of 13 amino acids of Cdc42  $\Delta$ C includes the polybasic domain consisting of six contiguous basic amino acids. The polybasic domain of Cdc42 is required for homodimer formation. The GST-Tag facilitates the protein's application in typical GST pull-down assays. Protein preparation is 100% GDP-loaded, measured by HPLC.

## Selected References:

Wedlich-Soldner *et al.* (2003) Spontaneous cell polarization through Actomyosin-based delivery of the Cdc42 GTPase. *Science* **299**:1231.

Zhang et al. (2001) Oligomerization of Rac1 GTPase mediated by carboxy-terminal polybasic domain. J. Biol. Chem. 276:8958.

Zhang et al. (1999) A built-in arginine finger triggers the selfstimulatory GTPase-activating activity of Rho family GTPases. J. Biol. Chem. 274:2609.

Zhang et al. (1998) Negative regulation of Rho family GTPases Cdc42 and Rac2 by homodimer formation. J. Biol. Chem. 273:25728.

Chamberlain *et al.* (2004) The p85alpha Subunit of Phosphatidylinositol 3 - Kinase Binds to and Stimulates the GTPase Activity of Rab Proteins. *J. Biol. Chem.* **279 (47)**:48607.