## Product Description

- A helping hand for your research

Product Name: Cdc42 Protein
Synonyms: Cell division cycle 42, G25K, CDC42Hs Catalogue Number: 10107

Source: Human, recombinant full length, $\mathrm{His}_{6}$-tag
Expression Host: E. coli
Molecular Weight: 21 kDa
Purity: >99\% by SDS-PAGE

Introduction: Small GTPases are a super-family of cellular signaling regulators. Cdc42 belongs to the Rho sub-family of GTPases that regulate cell motility, cell division, and gene transcription. GTP binding increases the activity of Cdc42, and the hydrolysis of GTP to GDP renders it inactive. GTP hydrolysis is aided by GTPase activating proteins (GAPs), while exchange of GDP for GTP is facilitated by guanine nucleotide exchange factors (GEFs).

Amino Acid Sequence (1-191)
MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFD NYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPLSYPQTD VFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVG TQIDLRDDPSTIEKLAKNKQKPITPETAEKLARDLKAV KYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVL L

## Properties

Physical Appearance (form): Dissolved in 20mM Tris-HCl, pH8.0, 150 mM NaCl .

Physical Appearance (form): White or clear
Concentration: $1 \mathrm{mg} / \mathrm{mL}$
Storage: $-80^{\circ} \mathrm{C}$

## Preparation Instructions

Adding of $10 \mathrm{mM} \beta$-mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl $\beta$-D-maltoside (DoDM) or polyethylene detergents (e.g. $\mathrm{C}_{12} \mathrm{E}_{10}$ ) also help to stabilize the protein. Avoid repeated freezing and thawing.


The purity of His-tagged Cdc42 was determined by SDS- PAGE and Coomassie Brilliant Blue Staining.

## References

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