

Cdc42(G12V) Mutant

Catalog Number: 10109

Synonyms: Cell division cycle 42, G25K, CDC42Hs

Background: 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, G12V)

MQTIKCVVVGDIYAVGKTCLLISYTTNKFPSEYVPT
VFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPL
SYPQTDVFLVCFVSVSPSSFENVKEKWVPEITHHCP
KTPFLLVGTQIDLRDDPSTIEKLAKNKQKPIPETAE
KLARDLKAVKYVECSALTQKGLKNVFDEAILAAE
PPEPKSRRCVLL

Source: Human, recombinant full length, His6-tag

Expression Host: E. coli

Molecular Weight: 21 kDa

Purity: >99 % by SDS-PAGE

Constituents: 20 mM Tris-HCl, pH 8.0, 150 mM NaCl.

Physical Appearance: Clear, colorless

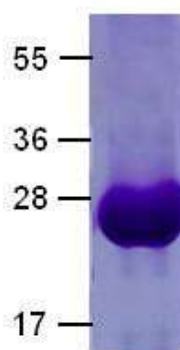
Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions

Adding of 10 mM β -mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl β -D-maltoside (DoDM) or polyethylene detergents (e.g.

C12E10) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged Cdc42(G12V) was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References1.

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