

Recombinant Human CDC42 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CDC42-4183H Lot. No. (See product label)

SPECIFICATION

Product Overview	CDC42 MS Standard C13 and N15-labeled recombinant protein (NP_001782) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to <i>Saccharomyces cerevisiae</i> Cdc 42, and is able to complement the yeast <i>cdc42-1</i> mutant. The product of oncogene <i>Dbl</i> was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants. Pseudogenes of this gene have been identified on chromosomes 3, 4, 5, 7, 8 and 20.
Molecular Mass	21.1 kDa
AA Sequence	MQTIKCVVVG DGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDT AGQEDYDRLRPLSYPQTDVFLVCFVSPSSFENVKEKWWPEITHHCPKTPFLVGT QIDLRDDPSTIEKLAKNKQKPITPETAEKLRDLKAVKYVECSALTQKGLKNVFDEAIL

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AALEPPEPKKSRRCVLLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CDC42 cell division cycle 42 [Homo sapiens (human)]

Official Symbol CDC42

Synonyms CDC42; cell division cycle 42 (GTP binding protein, 25kDa); cell division cycle 42 (GTP binding protein, 25kD); cell division control protein 42 homolog; CDC42Hs; G25K; G25K GTP-binding protein; GTP-binding protein, 25kD; growth-regulating protein; small GTP binding protein CDC42; dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein, 25kD)); dJ224A6.1.2 (cell division cycle 42 (GTP-binding protein, 25kD));

Gene ID 998

mRNA Refseq NM_001791

Protein Refseq NP_001782

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MIM	116952
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UniProt ID	P60953
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