

Recombinant Human CDC42, T7 -tagged

Cat. No. CDC42-26651TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length mature human CDC42 fused to T7 tag at N-terminus; amino acids 1-188 , 22.4kDa.

Species Human

Source E.coli

ProteinLength 1-188 a.a.

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 *Saccharomyces cerevisiae* Cdc 42, and is able to complement the yeast *cdc42-1* mutant. The product of oncogene *Dbl* 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.

Conjugation T7

Form Liquid

Purity >95% by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 2mM EDTA, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MASMTGGQQM GRGSHMQTIK CVVVG DGAVG KTCLLISYTT NKFPSEYVPT VFDNYAVTVM IGGEPYTLGL FDTAGQEDYD RLRPLSYPQT DVFLVCFSVV SPSSFENVKE K WVPEITHHC PKTPFLLVGT QIDLRDDPST IEKLAKNKQK PITPETA EKL ARDLKAVKYV ECSALTQKGL KNVFDEAILA ALEPPEPKKS RRC
Sequence Similarities	Belongs to the small GTPase superfamily. Rho family. CDC42 subfamily.
Full Length	Full L.

GENE INFORMATION

Gene Name	CDC42 cell division cycle 42 (GTP binding protein, 25kDa) [Homo sapiens]
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;
Gene ID	998
mRNA Refseq	NM_001039802
Protein Refseq	NP_001034891

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MIM	116952
Uniprot ID	P60953
Chromosome Location	1p36.1
Function	GTP binding; GTP-dependent protein binding; GTPase activity; GTPase activity; mitogen-activated protein kinase kinase kinase binding;

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