

Recombinant Human CDC42(Q61L) protein, His-tagged

Cat. No. CDC42-2637H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDC42 fused with a histidine tag in the amino-terminus was expressed in E. coli.
Species	Human
Source	E.coli
Description	The constitutively active form of human Cdc42 protein contains a glutamine to leucine substitution at residue 61. The common name for this mutant is Cdc42(Q61L) or L61Cdc42. The leucine substitution prevents endogenous and GAP-stimulated GTPase activity of Cdc42, hence the protein is always in the active, GTP-bound, state. A similar mutation in Ras (Ras(Q61L)) behaves as an oncogenic mutation.
Form	2 mM Tris pH 7.6, 0.5 mM MgCl ₂ , 0.5% sucrose and 0.1% dextran.
Molecular Mass	~25 kDa
Purity	>70% pure
Applications	Cdc42 effector and GAP identification and binding studies; Activation of Cdc42 effectors in vitro and in vivo; Stimulation of Cdc42 phenotype by microinjection into cells

GENE INFORMATION

 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

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; 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_001039802
Protein Refseq	NP_001034891
MIM	116952
UniProt ID	P60953
Chromosome Location	1p36.1
Pathway	Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, organism-specific biosystem;
Function	GTP binding; GTP-dependent protein binding; GTPase activity; GTPase activity; mitogen-activated protein kinase kinase kinase binding; nucleotide binding; protein

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binding; thioesterase binding;

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