Active Recombinant Human CDC42(T17N) protein, GST-tagged

Cat. No. CDC42-2636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDC42 fused with GST tag in the amino-terminus was expressed in E. coli.
Species	Human
Source	E.coli
Description	The dominant negative form of the Cdc42 protein (G25K isoform) contains a threonine to asparagine substitution at residue 17. The common name for this mutant is Cdc42(T17N) (or N17Cdc42). The asparagine substitution abolishes the protein's affinity for GTP and reduces its affinity for GDP. Hence, the Cdc42(T17N) is always in either a nucletiode free state or in its inactive, GDP-bound, state. Because of this, it binds strongly to Cdc42 GEFs and it blocks wild type Cdc42 from being activated by these GEFs.
Form	2 mM Tris pH 7.6, 0.5 mM MgCl2, 0.5% sucrose, 0.1% dextran.
Bio-activity	Activity of Cdc42(T17N) was verified by the ability of the protein to inhibit GEF activation of wild type Cdc42 in an in vitro GEF assay.
Molecular Mass	~50 kDa
Purity	>90% pure
Applications	Cdc42 GEF binding studies; Inhibition of Cdc42 GEFs in vitro; Inhibition of Cdc42 in

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	vivo by microinjection
Reconstitution	reconstituted in distilled water to 1 mg/ml

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; 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,

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	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 binding; thioesterase binding;

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