

Active Recombinant Human RHOC protein, His-tagged

Cat. No. RHOC-2732H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human RHOC fused with a histidine tag in the amino-terminus was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. The protein encoded by this gene is prenylated at its C-terminus, and localizes to the cytoplasm and plasma membrane. It is thought to be important in cell locomotion. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Form	2 mM Tris pH 7.6, 0.5 mM MgCl ₂ , 0.5% sucrose, 0.1% dextran.
Bio-activity	The biological activity of His-RhoC is determined from its ability to catalyze the exchange of GDP for GTP.
Molecular Mass	~30 kDa
Purity	~90%

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Applications	RhoC biochemistry; RhoC GTPase assays; RhoC nucleotide exchange assays; RhoC binding studies
Reconstitution	Reconstituted in distilled water to 1 mg/ml
GENE INFORMATION	
Gene Name	RHOC ras homolog family member C [Homo sapiens]
Official Symbol	RHOC
Synonyms	RHOC; ras homolog family member C; ARH9, ARHC, ras homolog gene family, member C; rho-related GTP-binding protein Rh centigrade; Rh centigrade; rh centigrade GTPase; oncogene RHO H9; rho cDNA clone 9; RAS-related homolog 9; small GTP binding protein Rh centigrade; ras homolog gene family, member C; H9; ARH9; ARHC; RHOH9; MGC1448; MGC61427;
Gene ID	389
mRNA Refseq	NM_001042678
Protein Refseq	NP_001036143
MIM	165380
UniProt ID	P08134
Chromosome Location	1p13.1
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-

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specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Rho GTPase cycle, organism-specific biosystem; Sema4D in semaphorin signaling, organism-specific biosystem; Sema4D induced cell migration and growth-cone collapse, organism-specific biosystem;

Function

GTP binding; GTPase activity; nucleotide binding; protein binding; protein domain specific binding; signal transducer activity;

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