

Recombinant Human RAC1(Y72C) protein, His-tagged

Cat. No. RAC1-193H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RAC1(Y72C) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a GTPase which belongs to the RAS superfamily of small GTP-binding proteins. Members of this superfamily appear to regulate a diverse array of cellular events, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. Two transcript variants encoding different isoforms have been found for this gene.
Form	50mM Tris-HCl, pH 8.0, 200mMNaCl, 20% glycerol.
Molecular Mass	(Theoretical molecular weight)~24kDa including His tag
AA Sequence	MQAIKCVVVG DGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWD TAGQEDYDRLRPLSCPQTDVFLICFSLVSPASFENVRAKWYPEVRHHCPNTPILVG TKLDRDDKDTIEKLKEKKLTPITYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAI RAVLCPP PVKKRKRKCLLL
Purity	> 90% as determined by SDS-PAGE
Storage	Short Term Storage at +4 centigrade, Long Term, please prepare aliquots and store at -20~-80 centigrade. Avoid freeze/thaw cycles.

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Concentration 2.0mg/ml

GENE INFORMATION

Gene Name RAC1 ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) [Homo sapiens]

Official Symbol RAC1

Synonyms RAC1; ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1); ras-related C3 botulinum toxin substrate 1; p21 Rac1; Rac 1; TC 25; ras-like protein TC25; cell migration-inducing gene 5 protein; MIG5; Rac-1; TC-25; p21-Rac1; MGC111543;

Gene ID 5879

mRNA Refseq NM_006908

Protein Refseq NP_008839

MIM 602048

UniProt ID P63000

Chromosome Location 7p22

Pathway Activation of Rac, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem;

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Amyotrophic lateral sclerosis (ALS), conserved biosystem;

Function

GTP binding; GTPase activity; enzyme binding; nucleotide binding; protein binding; thioesterase binding;

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