

Active Recombinant Human RAC2 Protein, His tagged

Cat. No. RAC2-4536H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAC2 Protein, Human (His) is the recombinant human-derived RAC2 protein, expressed by E.coli , with N-His labeled tag.
Species	Human
Source	E.coli
ProteinLength	1-189 aa
Description	This gene encodes a member of the Ras superfamily of small guanosine triphosphate (GTP)-metabolizing proteins. The encoded protein localizes to the plasma membrane, where it regulates diverse processes, such as secretion, phagocytosis, and cell polarization. Activity of this protein is also involved in the generation of reactive oxygen species. Mutations in this gene are associated with neutrophil immunodeficiency syndrome. There is a pseudogene for this gene on chromosome 6.
Form	Lyophilized powder
Bio-activity	The specific activity was determined to be 8.58 nmol/min/mg in a GTPase-Glo assay using GTP solution substrate.
Molecular Mass	Approximately 25 kDa
AASequence	MQAIKCVVVG DGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDSKPVNLGLWD TAGQEDYDRLRPLSYPQTDVFLICFSLVSPASYENVRAKWFPEVRHHCPSTPIILVGT

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KLDLRDDKDTIEKLKEKKLAPITYPQGLALAKEIDSVKYLECSALTQRGLKTVFDEAIR
AVLCPQPTRQQKRAC

Purity > 95% as determined by reducing SDS-PAGE

Storage Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

GENE INFORMATION

Gene Name RAC2 Rac family small GTPase 2 [Homo sapiens (human)]

Official Symbol RAC2

Synonyms RAC2; Rac family small GTPase 2; Gx; EN-7; IMD73A; IMD73B; IMD73C; HSPC022; p21-Rac2; ras-related C3 botulinum toxin substrate 2; Ras-related C3 botulinum toxin substrate 3 (rho family, small GTP-binding protein Rac2); ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2); small G protein; EC 3.6.5.2

Gene ID 5880

mRNA Refseq NM_002872

Protein Refseq NP_002863

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MIM	602049
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UniProt ID	P15153
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