

# Recombinant human RAC3 protein

Catalog Number: ATGP0843

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-189aa

**UniProt No.**

P60763

**NCBI Accession No.**

NP\_005043

**Alternative Names**

ras-related C3 botulinum toxin substrate 3, p21-Rac3, Rac1B, RAS related C3 botulinum substrate 3, Ras related C3 botulinum toxin substrate 3, rho family small GTP binding protein Rac3, Rho family small GTP binding protein Rac3, RP23-84C12.18

## PRODUCT SPECIFICATION

**Molecular Weight**

21 kDa (189aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 200mM NaCl, 0.1mM PMSF, 1mM EDTA

**Purity**

> 95% by SDS-PAGE

**Tag**

Non-Tagged

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**

RAC3 is a member of the Rac subfamily of the Rho small G proteins. This protein is a small (~21 kDa) monomeric GTP-binding protein, and is an important component of intracellular signalling pathway, including the control of cell growth, cytoskeletal reorganization, and the activation of protein kinases. Recombinant human RAC3 protein

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was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDGKP VNLGLWDTAG QEDYDRLRPL SYPQTDVFLI  
CFSLVSPASF ENVRAKWYPE VRHHCPHTPI LLVGTKDLR DDKDTIERLR DKKLAPITYP QGLAMAREIG SVKYLECSAL  
TQRGLKTVFD EAIRAVLCPP PVKKPGKKC

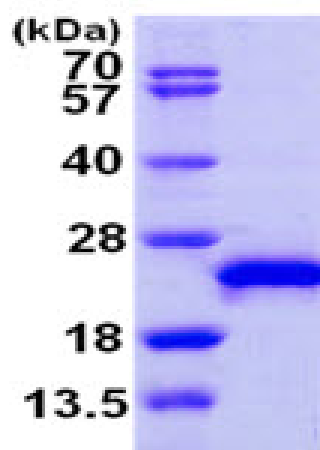
### General References

De Langhe S., et al. (2002) Int. J. Mol. Med. 9:451-459

Haataja L, et al. (1997) J. Biol. Chem. 272 (33): 20384-88.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)