

# Recombinant human RAC1 protein

Catalog Number: ATGP0403

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-192aa

### UniProt No.

P63000

### NCBI Accession No.

NP\_008839

### Alternative Names

Ras-related C3 botulinum toxin substrate 1 isoform, MIG5, p21-Rac1, TC-25, Ras-related C3 botulinum toxin substrate 1 isoform Migration inducing gene 5, Migration inducing protein 5, p21 Rac1, Rac 1, Ras like protein TC25, TC25.

## PRODUCT SPECIFICATION

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### Molecular Weight

23.6 kDa (212aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 1mM EDTA, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### 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

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### Description

Rac1, belonging to the Rho small GTPase family, regulates the actin cytoskeleton but also other cellular processes. RAC1 have been shown to be involved in the regulation of cell-cell adhesion. Recombinant human

# Recombinant human RAC1 protein

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RAC1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDGKP VNLGLWDTAG  
QEDYDRLRPL SYPQTDVFLI CFSLVSPASF ENVRAKWYPE VRHHCPNTPI ILVGTKLDLR DDKDTIEKLN EKKLTPITYP  
QGLAMAKEIG AVKYLECSAL TQRGLKTVFD EAIRAVLCPP PVKRRKRKCL LL

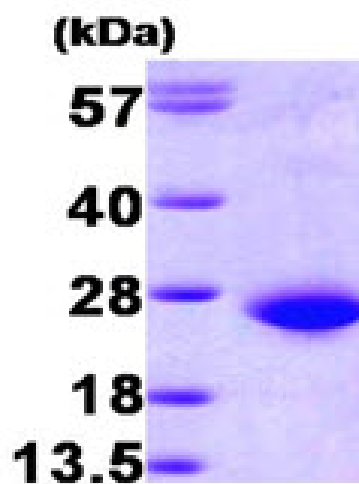
## General References

Chrostek A., et al. (2006) Mol Cell Biol. 26: 6957-70.

Sun CX., et al. (2004) Blood. 104(12):3758-65.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)