

# Recombinant human RAC2 protein

Catalog Number: ATGP0365

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-189aa

**UniProt No.**

P15153

**NCBI Accession No.**

NP\_002863

**Alternative Names**

Ras-related C3 botulinum toxin substrate 2., EN-7, Gx, HSPC022, Ras-related C3 botulinum toxin substrate 2, EN 7, EN7, HSPC 022, p21 Rac 2, p21 Rac2, p21Rac2, RAC 2, Ras related C3 botulinum toxin substrate 2, Ras related C3 botulinum toxin substrate 3, Rho family small GTP binding protein Rac 2, Rho family small GTP binding protein Rac2, Small G protein.

## PRODUCT SPECIFICATION

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**Molecular Weight**

23.3 kDa (209aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

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

**Purity**

&gt; 95% by SDS-PAGE

**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**

Rac2 is a small signaling G protein (more specifically a GTPase), and is a member of the Rac subfamily of the family Rho family of GTPases. Rac proteins play important roles in multiple cellular events, including actin cytoskeletal organization, cell proliferation and survival, cell cycle progression, and gene transcription

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regulation. Recombinant human RAC2 was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDSKP VNLGLWDTAG  
QEDYDRLRPL SYPQTDVFLI CFSLVSPASY ENVRAKWFPE VRHHCPSTPI ILVGTKLDLR DDKDTIEKLK EKKLAPITYP  
QGLALAKEID SVKYLECSAL TQRGLKTVFD EAIRAVLCPQ PTRQQKRAC

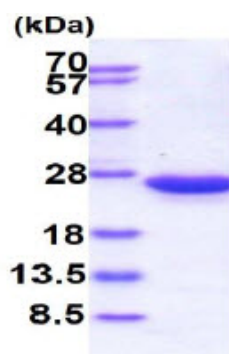
## General References

Ambruso DR., et al. (2000) Proc Natl Acad Sci U S A. 97(9):4654-9.

Faure J., et al. (2001) Biochimie. 83(5):409-14.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)