## PRODUCT INFORMATION

## 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

## 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 2 mM EDTA, $2 \mathrm{mM} \mathrm{DTT}$,0.1 M NaCl .

## Purity

> 95\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

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

## BACKGROUND

## 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
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

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SDS-PAGE
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(kDa)
$\begin{array}{r}78 \\ 50 \\ \hline\end{array}$ 40 28 18
13.5
8.5

15\% SDS-PAGE (3ug)

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

