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 (\sim 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



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

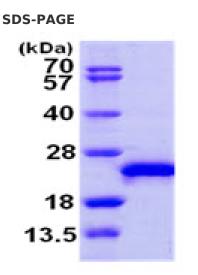
Amino acid Sequence

MQAIKCVVVG DGAVGKTCLL ISYTTNAFPG EYIPTVFDNY SANVMVDGKP VNLGLWDTAG QEDYDRLRPL SYPQTDVFLI CFSLVSPASF ENVRAKWYPE VRHHCPHTPI LLVGTKLDLR 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



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

15% SDS-PAGE (3ug)