

Recombinant human Rap1A protein

Catalog Number: ATGP0598

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-181aa

UniProt No.

P62834

NCBI Accession No.

NP_001010935

Alternative Names

Ras-related protein Rap-1A, KREV1, G-22K, C21KG, Ras-related protein Rap-1A, G 22K, GTP binding protein smg p21A, KREV 1, OTTHuMP00000013741, RAP 1A, RAP1, RAP1A member of RAS oncogene family, Ras related protein Krev 1, Ras related protein Rap 1A, RAS related protein RAP1A, SMGP21

PRODUCT SPECIFICATION

Molecular Weight

22.8 kDa (201aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 5mM DTT, 200mM NaCl

Purity

> 85% 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

Description

Ras-related protein Rap-1A (RAP1A) belongs to the family of RAS-related proteins. These proteins share approximately 50% amino acid identity with the classical RAS proteins and have numerous structural features in common. The most striking difference between RAP proteins and RAS proteins resides in their 61st amino acid: glutamine in RAS is replaced by threonine in RAP proteins. This Protein Induces morphological reversion of a cell

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line transformed by a Ras oncogene and Counteracts the mitogenic function of Ras, at least partly because it can interact with Ras GAPs and RAF in a competitive manner. Recombinant human RAP1A, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MREYKLVVLG SGGVGSALT VQFVQGIFVE KYDPTIEDSY RKQVEVDCQQ CMLEILDTAG
TEQFTAMRDL YMKNGQGFAL VYSITAQSTF NDQLDLREQL LRVKDTEDVP MILVGNKCDL EDERVVGKEQ GQNLARQWCN
CAFLESSAKS KINVNEIFYD LVRQINRKTP VEKKKPKKKS C

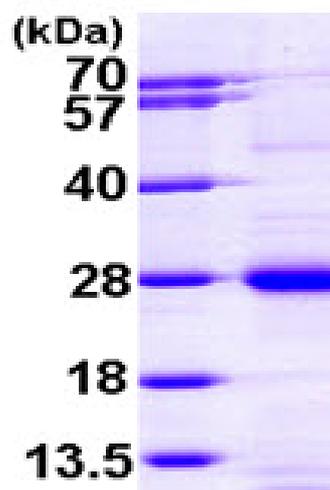
General References

Han, L., et al. (1995) Mol Cell Biol. 15 (3): 1318-23.

Rebhun, J F, et al. (2000) J Biol Chem. 275 (45): 34901-8.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)