Recombinant human RGS10 protein

Catalog Number: ATGP1144

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-181aa

UniProt No.
O43665

NCBI Accession No.
NP_001005339

Alternative Names
Regulator of G-protein signaling 10, Regulator of G protein signaling 10

PRODUCT SPECIFICATION

Molecular Weight
23.7 kDa (205aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 90% 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
Regulator of G protein signaling (RGS) family members are regulatory molecules that act as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins are able to deactivate G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. Regulator of G protein signaling 10 (RGS10) belongs to this family. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. This protein associates specifically with the activated forms of the two related G-protein subunits, G-alphai3 and G-alphaz but fails to interact with the structurally and

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functionally distinct G-alpha subunits. RGS10 protein is localized in the nucleus. Recombinant human RGS10 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

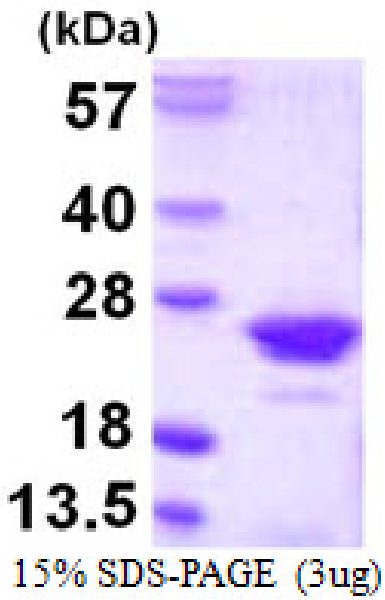
MGSSHHHHHH SSGLVPRGSH MGSHMFNRAV SRLSRKRPPS DIHDSDGSSS SSHQSLKSTA KWAASLENLL EDPEGVKRFR EFLKKEFSEE NVLFWLACED FKKMQDKTQM QEKAKEIYMT FLSSKASSQV NVEGQSRLNE KILEEPHPLM FQKLQDQIFN LMKYDSYSRF LKSDLFLKHK RTEEEEEDLP DAQTAAKRAS RIYNT

General References

Cali J J., et al. (1992) J Biol Chem. 267:24023-24027.
Simon M I., et al. (1991) Science. 252:802-808.

DATA

SDS-PAGE



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