

# Recombinant human RGS21 protein

Catalog Number: ATGP1157

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-152aa

### UniProt No.

Q2M5E4

### NCBI Accession No.

NP\_001034241

### Alternative Names

Regulator of G-protein signaling 21

## PRODUCT SPECIFICATION

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### Molecular Weight

20.2 kDa (176aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% 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

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### Description

Regulator of G-protein signaling 21, also known as RGS21, is a RGS family member and regulatory molecules that act as GTPase activating proteins for G alpha subunits of heterotrimeric G proteins. This protein inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. Recombinant human RGS21 human, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHPVKCC FYRSPTAETM TWSENMDTLL ANQAGLDAFR IFLKSEFSEE NVEFWLACED  
FKKTKNADKI ASKAKMIYSE FIEADAPKEI NIDFGTRDLI SKNIAEPTLK CFDEAQKLIY CLMAKDSFPR FLKSEIYKKL  
VNSQQVPHHK KWLPL

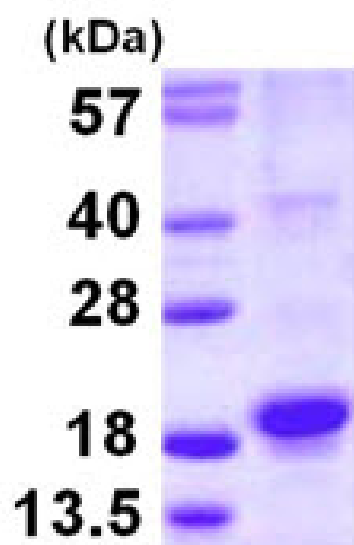
### General References

Li X., et al. (2005) Acta Biochim Pol. 52(4):943-6.  
Von Buchholtz L., et al. (2004) Eur J Neurosci. 19(6):1535-44.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)