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## Recombinant human RGS16 protein

Catalog Number: ATGP0499

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-202aa

#### **UniProt No.**

015492

#### **NCBI Accession No.**

AAH06243

### **Alternative Names**

Regulator of G-protein signaling 16, A28-RGS14, A28-RGS14P, RGS-R, Regulator of G-protein signaling 16 A28 RGS14, A28 RGS14P, HGNC:9997, Regulator of G protein signaling 16, Retinally abundant regulator of G protein signaling, RGS 16 RGS R, Rgs14, RGSR.

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

24.9 kDa (222aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% 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**

RGS16, also known as regulator of G-protein signaling 16, belongs to 'regulator of G protein signaling' family and negatively regulates G protein coupled receptor signalling. This protein inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP bound form. It also may play a role in regulating the kinetics of signaling in the phototransduction cascade. Recombinant RGS16



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

## **Amino acid Sequence**

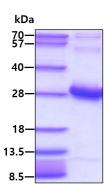
<MGSSHHHHHH SSGLVPRGSH> MCRTLAAFPT TCLERAKEFK TRLGIFLHKS ELGCDTGSTG KFEWGSKHSK ENRNFSEDVL GWRESFDLLL SSKNGVAAFH AFLKTEFSEE NLEFWLACEE FKKIRSATKL ASRAHQIFEE FICSEAPKEV NIDHETRELT RMNLQTATAT CFDAAQGKTR TLMEKDSYPR FLKSPAYRDL AAQASAASAT LSSCSLDEPS HT

#### **General References**

Chen C., et al. (1997) J Biol Chem. 272(13):8679-85 Derrien A., et al. (2001) J Biol Chem. 276(51):48532-8

### **DATA**

#### **SDS-PAGE**



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

