

Recombinant human RGS16 protein

Catalog Number: ATGP0499

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-202aa

UniProt No.

O15492

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

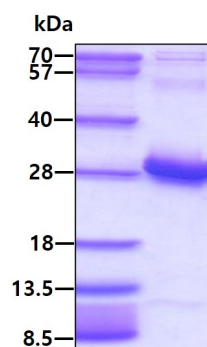
General References

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



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