
Product Data Sheet

Product Name: RGS16 Human

Cat. No.: GP24376

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	A28-RGS14; A28-RGS14P; RGS-R; Regulator of G-protein signaling 16; RGS16; Retinally abundant regulator of G-protein signaling; Retinal-specific RGS; hRGS-r; RGSR.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MCRTLAAFPT TCLERAKEFK TRLGIFLHKS ELGCDTGSTG KFEWGSKHSK ENRNFSEDVL GWRESFDLLL SSKNGVAAFH AFLKTEFSEE NLEFWLACEE FKKIRSATKL ASRAHQIFEE FICSEAPKEV NIDHETRELT RMNLQTATAT CFDAAQGKTR TLMEKDSYPR FLKSPAYRDL AAQASAASAT LSSCSLDEPS HT.		
Formulation	The RGS16 solution contains 20mM Tris-HCl pH-8, 0.1M NaCl and 20% glycerol.		

Introduction

RGS16 is part of the "regulator of G protein signaling" family. RGS16 inhibits signal transduction by increasing the GTPase activity of G protein alpha subunits thereby driving them into their inactive GDP-bound form. RGS16 Binds to G(i)-alpha and G(o)-alpha, but not to G(s)-alpha. RGS16 regulates the kinetics of signaling in the phototransduction cascade.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

RGS16 Human Recombinant fused to 20 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 222 amino acids (1-202

Caution: Product has not been fully validated for medical applications. For research use only.

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a.a.) and having a molecular mass of 24.9 kDa. The RGS16 is purified by proprietary chromatographic techniques.

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