
Product Data Sheet

Product Name: RGS10 Human
 Cat. No.: GP24374
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Regulator Of G-Protein Signaling 10; RGS10.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMFNRAV SRLSRKRPPS DIHDS DGSSS SSHQSLKSTA KWAASLENLL EDPEGVKRFR EFLKKEFSEE NVLFWLACED FKKMQDKTQM QEKAKEIYMT FLSSKASSQV NVEGQSRLNE KILEEPHPLM FOKLQDQIFN LMKYDSYSRF LKSDLFLKHK RTEEEEEEDLP DAQTA AKRAS RIYNT		
Formulation	The RGS10 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.		

Introduction

RGS10 is a member of the RGS family that regulate molecules which perform as GTPase activating proteins (GAPs) for G alpha subunits of heterotrimeric G proteins. RGS proteins can disengage G protein subunits of the Gi alpha, Go alpha and Gq alpha subtypes. They drive G proteins into their inactive GDP-bound forms. All RGS proteins share a conserved 120-amino acid sequence termed the RGS domain. The nucleus localized RGS10 is associated specifically with the activated forms of the two related G-protein subunits, G-alpha_{i3} and G-alpha_z but is unable to cooperate with the structurally and functionally distinct G-alpha subunits.

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

RGS10 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

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

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chain containing 205 amino acids (1-181) and having a molecular mass of 23.7 kDa. The RGS10 is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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