
Product Data Sheet

Product Name: RSG1 Human
 Cat. No.: GP24447
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	REM2- and Rab-like small GTPase 1; RSG1; C1orf89; RP4-733M16.4.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMARPPVP GSVVVPNWHE SAEGKEYLAC ILRKNRRRVF GLLERPVLLP PVSIDTASYK IFVSGKSGVG KTALVAKLAG LEVPVVHHET TGIQTTVFW PAKLQASSRV VMFRFEFWDC GESALKKFDH MLLACMENTD AFLFLFSFTD RASFEDLPGQ LARIAGEAPG VVRMVGSKF DQYMHTDVPE RDLTAFRQAW ELPLLRVKSVPGRRLADGRT LDGRAGLADV AHILNGLAEQ LWHQDQVAAG LLPNPPEAP E.		
Formulation	RSG1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.5), 0.2M NaCl, 50% glycerol and 2mM DTT.		

Introduction

REM2 and RAB-Like Small GTPase 1 (RSG1) plays a part in targeted membrane trafficking most likely at the level of vesicle fusion with membranes. The RSG1 protein is involved in cilium biogenesis by regulating the transportation of cargo proteins to the basal body and to the apical tips of cilia. RSG1 is a potential effector of the planar cell polarity signaling pathway. RSG1 is also involved in exocytosis in secretory cells.

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

RSG1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 281 amino acids (1-258 a.a) and having a molecular mass of

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30.9kDa.RSG1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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