
Product Data Sheet

Product Name: RRAGC Human
 Cat. No.: GP24443
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ras-related GTP-binding protein C; Rag C; RagC; GTPase-interacting protein 2; TIB929; RRAGC; GTR2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSLQYG AEETPLAGSY GAADSF PKDF YGVVEEEEE AAAAGGGVGA GAGGGCGPGG ADSSKPRILL MGLRRSGKSS IQKVV FHKMS PNETLFLEST NKIYKDDISN SSFVNFQIWD FPGQMDFFDP TFDYEMIFRG TGALIYVIDA QDDYMEALTR LHITVSKAYK VNPDMNFEVF IHKVDGLSDD HKIETQRDIH QRANDDLADA GLEKLHLSFY LTSIYDHSIF EAFSKVVQKL IPQLPTLENL LNIFISNSGI EKAFLFDVVS KIIYATDSSP VDMQSYELCC DMIDVVIDVS CIYGLKEDGS GSAYDKESMA IIKLNNTTVL YLKEVTKFLA LVCILREESF ERKGLIDYNF HCFRKAIHEV FEVGVTSHRS CGHQTSASSL KALTHNGTPR NAI.		
Formulation	RRAGC protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.		

Introduction

Ras-related GTP binding C (RRAGC) is a monomeric guanine nucleotide-binding protein, or G protein. As a result of binding GTP or GDP, small G proteins act as molecular regulators in various cell processes and signaling pathways. RRAGC regulates the organization of the actin cytoskeleton and has an intrinsic GTPase activity. RRAGC is possibly necessary for the amino acid-induced relocalization of mTORC1 to the lysosomes and its succeeding activation by the GTPase RHEB, which is key step in the activation of the TOR signaling cascade by amino acids.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

RRAGC Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 423 amino acids (1-399 a.a) and having a molecular mass of 46.7kDa. RRAGC is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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