9051 Mira Mesa Blvd, #910094
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RHOG Human

Ras Homolog Gene Family Member G Human Recombinant
RCP1870

Product Overview

Name	RHOG Human

Description

Ras Homolog Gene Family Member G Human Recombinant

Accession (Primary)	P84095

Synonyms

Ras homolog family member G(rho G), rho-related GTP-binding protein RhoG, MGC125836, RhoG, ARHG, MGC125835.

Introduction

RHOG belongs to the Rac subfamily of the Rho family of small G proteins. RHOG is a small monomeric GTP-binding protein (G protein), and is a key element of several intracellular signalling pathways. RHOG is needed for the formation of membrane ruffles during macropinocytosis. RHOG takes part in cell migration and is essential for the formation of cup-like structures during trans-endothelial migration of leukocytes. Similar to various small G proteins RHOG has a role in several cellular signalling mechanisms such as cell motility, gene transcription, endocytosis, neurite outgrowth, protection from anoikis and regulation of the neutrophil NADPH oxidase.

Source

E.coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The RHOG solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.5M NaCl, 50mM Imidazole and 20% glycerol.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSH MQS IKCVVVGDGA VGKTCLLICY TTNAFPKEYI

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PTVFDNYSAQ SAVDGRTVNL NLWDTAGQEE YDRLRTLSYP QTNVFVICFS IASPPSYENV RHKWHPEVCH HCPDVPILLV GTKKDLRAQP DTLRRLKEQG QAPITPQQGQ ALAKQIHAVR YLECSALQQD GVKEVFAEAV RAVLNPTPIK RGRSC

Precautions

RHOG Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P84095)