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## Product Data Sheet

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Product Name: RHOG Human  
 Cat. No.: GP24385  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ras homolog family member G(rho G); rho-related GTP-binding protein RhoG; MGC125836; RhoG; ARHG; MGC125835.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMQS IKCVVVG DGA VGKTCLLICY TTNAFPKEYI PTVFDNYSAQ SAVDGRTVNL NLWDTAGQEE YDRLRTLSTYP QTNVVICFS IASPPSYENV RHKWHPEVCH HCPDVPILLV GTKKDLRAQP DTLRRLKEQG QAPITPQQGQ ALAKQIHAVR YLECSALQQD GVKEVFAEAV RAVLNPTPIK RGRSC		
Formulation	The RHOG solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 5mM DTT and 40% glycerol.		

### 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.

### 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

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

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RHOG Human Recombinant produced in E. coli is a single polypeptide chain containing 225 amino acids (1-188) and having a molecular mass of 25.2 kDa. RHOG is fused to a 37 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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