

## RHOG Human

**Description:** 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.

Catalog #: PRPS-1143

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

For research use only.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMQS  
IKCVVVG DGA VGKTCLLICY TTNAFPKEYI PTVFDNYSAQ SAVDGRVTNL NLWDTAGQEE  
YDLRLTSLYP QTNVFCVICS IASPPSYENV RHKWHPVCH HCPDVPILLV GTKKDLRAQP  
DTLRLKEQG QAPITPQQGQ ALAKQIHAVR YLECSALQQD GVKEVFAEAV RAVLNPTPIK  
RGRSC

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The RHOG solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 5mM DTT and 40% 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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