

## 32-4656: Recombinant Human Ras Homolog Gene Family Member G

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

### Description

Source : E.coli. 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. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 90% as determined by SDS-PAGE.  
**Content :** The RHOG solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 5mM DTT and 40% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMQS IKCVVVG DGA VGKTCLLICY  
TTNAFPKEYI PTVFDNYSQA SAVDGRTVNL NLWDTAGQEE YDRLRTLSTYP QTNVVICFS  
IASPPSYENV RHKWHPEVCH HCPDVPILLV GTKKDLRAQP DTLRRLKEQG QAPITPQQGQ  
ALAKQIHAVR YLECSALQQD GVKEVFAEAV RAVLNPTPIK RGRSC

