

Active Recombinant Human ARHGAP1 Protein (Full Length), N-His tagged

Cat. No. ARHGAP1-37H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant full-length human RhoGAP was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	Full Length
Description	RhoGAP is responsible for inactivating Rho GTPases by accelerating the hydrolysis of GTP to GDP. This enzymatic activity promotes the conversion of Rho GTPases from an active, GTP-bound state to an inactive, GDP-bound state, thereby regulating downstream signaling pathways. The inactivation of Rho GTPases is crucial for maintaining cellular homeostasis and controlling processes such as cell shape changes, cell adhesion dynamics and cell motility. Dysregulation of RhoGAP activity has been implicated in various human diseases, including cancer, cardiovascular diseases, and neurological disorders.
Molecular Mass	Observed MW: ~55 kDa Calculated MW: ~50 kDa
Purity	> 90%
Stability	One year at –70 centigrade from date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.25mM DTT, 25% glycerol.
Shipping	Dry ice
GENE INFORMATION	
Gene Name	ARHGAP1 Rho GTPase activating protein 1 [Homo sapiens (human)]
Official Symbol	ARHGAP1
Synonyms	ARHGAP1; Rho GTPase activating protein 1; rho GTPase-activating protein 1; Cdc42GAP; CDC42GAP; p50rhoGAP; RhoGAP; p50-RhoGAP; CDC42 GTPase-activating protein; GTPase-activating protein rhoOGAP; rho-type GTPase-activating protein 1; rho-related small GTPase protein activator; RHOGAP; RHOGAP1;
Gene ID	392
mRNA Refseq	NM_004308
Protein Refseq	NP_004299
MIM	602732
UniProt ID	Q07960

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GTPase Activity

RhoGAP stimulates GTPase activity by accelerating the hydrolysis of GTP. GTPase amount: 50 ng/reaction. Reaction time: 60 min.

Purity

The purity of RhoGAP was determined to be > 90% by densitometry.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA