

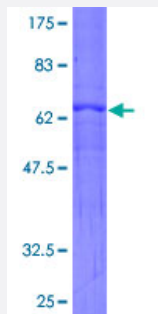
Full-Length

ARHGEF3 (Human) Recombinant Protein (P01)

Catalog # H00050650-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ARHGEF3 full-length ORF (AAH99715.1, 1 a.a. - 324 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKLPCLESSYDSYCSNQVAAKALLDHKKQDHRVQDFLQRCLESPFSRKLDLWNFLDIPRSRLVKY
 PLLLREILRHTPNNDPDQQHLEEAINIQQGVAEINTKTGESECRYKERLLYLEEGQKDSLIDSSRVV
 CCHGELKNNRGVKLHVFLFQEVLVITRAVTHNEQLCYQLYRQPIPVKDILLEDLDQGEVRLGGSLR
 GAFSNNERIKNFFRVVSFKNGSQSQTHSLQANDTFNKQQWLNCRQAKETVLCAGQAGVLDSEG
 SFLNPTTGSRELQGETKLEQMDQSDSESDCSMDTSEVSLDCERMEQTDSSCGNSRHGESNV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.4

Interspecies Antigen Sequence

Mouse (94); Rat (94)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ARHGEF3

Entrez GeneID[50650](#)**GeneBank Accession#**[BC099715.1](#)**Protein Accession#**[AAH99715.1](#)**Gene Name**

ARHGEF3

Gene Alias

DKFZp434F2429, FLJ98126, GEF3, MGC118905, STA3, XPLN

Gene Description

Rho guanine nucleotide exchange factor (GEF) 3

Gene Ontology[Hyperlink](#)**Gene Summary**

Rho-like GTPases are involved in a variety of cellular processes, and they are activated by binding GTP and inactivated by conversion of GTP to GDP by their intrinsic GTPase activity. Guanine nucleotide exchange factors (GEFs) accelerate the GTPase activity of Rho GTPases by catalyzing their release of bound GDP. This gene encodes a guanine nucleotide exchange factor, which specifically activates two members of the Rho GTPase family: RHOA and RHOB, both of which have a role in bone cell biology. It has been identified that genetic variation in this gene plays a role in the determination of bone mineral density (BMD), indicating the implication of this gene in postmenopausal osteoporosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

59.8 kDa protein|Rho guanine nucleotide exchange factor 3|RhoGEF protein|exchange factor found in platelets and leukemic and neuronal tissues, XPLN

Disease

- [Angina Pectoris](#)
- [Coronary Vasospasm](#)
- [Genetic Predisposition to Disease](#)
- [Osteoporosis](#)
- [Tobacco Use Disorder](#)