

Recombinant Full Length Human ARHGEF3 Protein, GST-tagged

Cat. No. ARHGEF3-1238HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ARHGEF3 full-length ORF (AAH99715.1, 1 a.a. - 324 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	324 amino acids
Description	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, Jul 2008]
Molecular Mass	63.4 kDa
AA Sequence	MKLPCLSSYD SYCSNQVAAK ALLDHKKQDH RVQDFLQRCL ESPFSRKLDL

 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

WNFLDIPRSR LVKYPLLLRE ILRHTPNNDP DQQHLEEAIN IIQGIVAEIN
 TKTGESECRY YKERLLYLEE GQKDSLIDSS RVVCCHGELK NNRGVKLHVF
 LFQEVLVITR AVTHNEQLCY QLYRQPIPVK DLLLEDLQDG EVRLGGSLRG
 AFSNNERIKN FFRVSFKNGS QSQTHSLQAN DTFNKQQWLN CIRQAKETVL
 CAAGQAGVLD SEGSLNPTT GSRELQGETK LEQMDQSDSE SDCSMDTSEV
 SLDCERMEQT DSSCGNSRHG ESNV

Applications

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

Storage

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

Storage Buffer

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

GENE INFORMATION
Gene Name

ARHGEF3 Rho guanine nucleotide exchange factor (GEF) 3 [Homo sapiens]

Official Symbol

ARHGEF3

Synonyms

ARHGEF3; Rho guanine nucleotide exchange factor (GEF) 3; rho guanine nucleotide exchange factor 3; DKFZP434F2429; exchange factor found in platelets and leukemic and neuronal tissues; XPLN; GEF3; RhoGEF protein; STA3; 59.8 kDA protein; exchange factor found in platelets and leukemic and neuronal tissues, XPLN; FLJ98126; MGC118905; DKFZp434F2429

Gene ID

50650

mRNA Refseq

NM_001128615

Protein Refseq

NP_001122087

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MIM	612115
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UniProt ID	Q9NR81
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