

Recombinant Human ARHGEF18 Protein (159-551 aa), GST-tagged

Cat. No. ARHGEF18-1214H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARHGEF18 Protein (159-551 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	159-551 aa
Description	Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPases. May play a role in actin cytoskeleton reorganization in different tissues since its activation induces formation of actin stress fibers. Also act as a GEF for RAC1, inducing production of reactive oxygen species (ROS). Does not act as a GEF for CDC42. The G protein beta-gamma (Gbetagamma) subunits of heterotrimeric G proteins act as activators, explaining the integrated effects of LPA and other G-protein coupled receptor agonists on actin stress fiber formation, cell shape change and ROS production.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	71.5 kDa
AA Sequence	MTVSQKGGPQPTSPAGPGTQLGPITGEMDEADSAFLKFKQTADDLSLSTSPNTESI

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FVEDPYTASLRSEIESDGHEFEAESWSLAVDAAYAKKQKREVVKRQDVLVELMQTE
VHHVRTLKIMLKVYSRALQEELQFSSKAIGRLFPCADDLLETHSHFLARLKERRQESL
EEGSDRNYVIQKIGDLLVQQFSGENGERMKEKYGVFCSGHNEAVSHYKLLLQQNKK
FQNLIKKIGNFSIVRRLGVQECILLVTQRITKYPVLVERIIQNTEAGTEDYEDLTQALNLI
KDII SQVDAKVSECEKQRLREIAGKMDLKSSSKLKNGLTFRKEDMLQRQLHLEGML
CWKTTSGRLKDILAILLTDVLLLLQEKDQKYVFASVDSKPPVISLQKL

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name ARHGEF18 Rho/Rac guanine nucleotide exchange factor (GEF) 18 [Homo sapiens]

Official Symbol ARHGEF18

Synonyms ARHGEF18; KIAA0521; MGC15913; P114 RhoGEF; SA-RhoGEF; p114RhoGEF; P114-RHO-GEF; P114-RhoGEF;

Gene ID 23370

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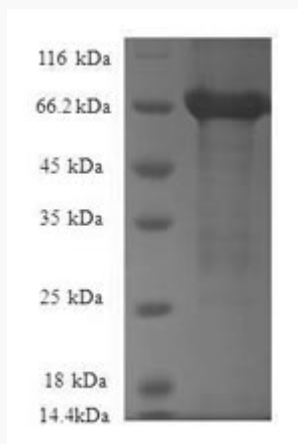
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mRNA Refseq [NM_001130955](#)

Protein Refseq [NP_001124427](#)

UniProt ID [Q6ZSZ5](#)



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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