Rho Gtpase-Activating Protein 21 (ARHGAP21) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Rho GTPase-activating protein 21 (ARHGAP21), Recombinant Protein
Full Product Name	Recombinant Human Rho GTPase-activating protein 21 (ARHGAP21) , partial
Product Gene Name	ARHGAP21 recombinant protein
Product Synonym Gene Name	ARHGAP21
Sequence	SDAAKEGWLH FRPLVTDKGK RVGGSIRPWK QMYVVLRGHS LYLYKDKREQ TTPSEEEQPI SVNACLIDIS YSETKRKNVF RLTTSDCECL FQAEDRDDML AWIKTIQESS NLNEEDTGVT NRDLISRRIK EYNNLMSKAE QLPKTPRQSL SIRQTLLGAK SEPKTQSP
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	129,244 Da
Sequence Positions	930-1097aa; Partial (Interaction with ARF1 and ARF6 Region)
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	609870
3D Structure	ModBase 3D Structure for Q5T5U3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ARHGAP21 recombinant protein	MBS1459290 is a recombinant protein targeting ARHGAP21. Also known as Recombinant Human Rho GTPase-activating protein 21 (ARHGAP21) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ARHGAP21 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARHGAP21. It may not necessarily be applicable to this product.

NCBI GI #	203097003
NCBI GeneID	57584
NCBI Accession #	NP_065875.3
UniProt Primary Accession #	Q5T5U3

UniProt Secondary Accession #	Q0VF98; Q7Z3P7; Q8N3A2; Q8NI19; Q8TBV5; Q9P2C3
UniProt Related Accession #	Q5T5U3
GenBank Nucleotide #	NM_020824.3
NCBI Official Full Name	rho GTPase-activating protein 21
NCBI Official Synonym Full Names	Rho GTPase activating protein 21
NCBI Official Symbol	ARHGAP21
NCBI Official Synonym Symbols	ARHGAP10
UniProt Protein Name	Rho GTPase-activating protein 21
UniProt Synonym Protein Names	Rho GTPase-activating protein 10; Rho-type GTPase-activating protein 21
Protein Family	Rho GTPase-activating protein
UniProt Gene Name	ARHGAP21
UniProt Synonym Gene Names	ARHGAP10; KIAA1424
NCBI Protein Information	rho GTPase-activating protein 21
NCBI Summary for ARHGAP21	ARHGAP21 functions preferentially as a GTPase-activating protein (GAP) for CDC42 (MIM 116952) and regulates the ARP2/3 complex (MIM 604221) and F-actin dynamics at the Golgi through control of CDC42 activity (Dubois et al., 2005 [PubMed 15793564]).[supplied by OMIM, Mar 2008]
UniProt Comments for ARHGAP21	Functions as a GTPase-activating protein (GAP) for RHOA and CDC42. Downstream partner of ARF1 which may control Golgi apparatus structure and function. Also required for CTNNA1 recruitment to adherens junctions.
Research Articles on ARHGAP21	**1.** Gly1121Ser variant in ARHGAP21 gene found to be shared by all MP individuals in arger branch of family with nearly complete penetrance. ARHGAP21 protein strengthens cell-cell adhesions; may be regulated by BMPs influencing mandibular growth.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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