Rac Gtpase-Activating Protein 1 (RACGAP1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Rac GTPase-activating protein 1 (Racgap1), Recombinant Protein
Full Product Name	Recombinant Mouse Rac GTPase-activating protein 1 (Racgap1)
Product Gene Name	Racgap1 recombinant protein
Product Synonym Gene Name	Racgap1
Sequence	MDTTMVNLWT LFEQLVRRME IINEGNESIE FIQVVKDFED FRKKYQRTNQ ELEKFKDLLL KAETGRSALD VKLKHARNQV DVEIKRRQRA EAECAKLEQQ IQLIRDILMC DTSGSIQLSE EQKSALAFLN RGQASSGHAG NNRLSTIDES GSILSDISFD KTDESLDWDS SLVKNFKMKK REKRRSNSRQ FIDGPPGPVK KTCSIGSTVD QANESIVAKT TVTVPSDGGP IEAVSTIETL PSWTRSRGKS GPLQPVNSDS ALNSRPLEPR TDTDNLGTPQ NTGGMRLHDF VSKTVIKPES CVPCGKRIKF GKLSLKCRDC RLVSHPECRD RCPLPCIPPL VGTPVKIGEG MLADFVSQAS PMIPAIVVSC VNEIEQRGLT EAGLYRISGC DRTVKELKEK FLKVKTVPLL SKVDDIHVIC SLLKDFLRNL KEPLLTFWLS KAFMEAAEIT DEDNSTAAMY QAVSELPQAN RDTLAFLMIH LQRVSQSPDT KMDIANLAKV FGPTIVAHTV PNPDPVTMFQ DIKRQLKVVE RLLSLPLEYW NQFMMVDQEN IDSQRGNGNS TPRTPDVKVS LLGPVTTPEF QLVKTPLSSS LSQRLYNLSK STPRFGNKSK SATNLGQQGK FFPAPYLK
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	70,158 Da
Sequence Positions	1-628, Full length protein
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.
3D Structure	ModBase 3D Structure for Q9WVM1
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Racgap1 recombinant protein	MBS1387966 is a recombinant protein targeting Racgap1. Also known as Recombinant Mouse Rac GTPase-activating protein 1 (Racgap1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Racgap1 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 Racgap1. It may not necessarily be applicable to this product.

NCBI GI #	359385704
NCBI GeneID	26934

NCBI Accession #	NP_001240737.1
UniProt Primary Accession #	Q9WVM1
UniProt Secondary Accession #	Q3THR5; Q3TI41; Q3TM81
UniProt Related Accession #	Q9WVM1
GenBank Nucleotide #	NM_001253808.1
NCBI Official Full Name	rac GTPase-activating protein 1
NCBI Official Synonym Full Names	Rac GTPase-activating protein 1
NCBI Official Symbol	Racgap1
NCBI Official Synonym Symbols	gtl11; Band25; GTPase; AI227039; AI327394; MgcRacGAP; mKIAA1478
UniProt Protein Name	Rac GTPase-activating protein 1
UniProt Synonym Protein Names	Male germ cell RacGap; MgcRacGAP
Protein Family	Rac GTPase-activating protein
UniProt Gene Name	Racgap1
UniProt Synonym Gene Names	MgcRacGAP
NCBI Protein Information	rac GTPase-activating protein 1
UniProt Comments for Racgap1	Component of the centralspindlin complex that serves as a microtubule-dependent and Rho-mediated signaling required for the myosin contractile ring formation during the cell cycle cytokinesis. Required for proper attachment of the midbody to the cell membrane during cytokinesis. Plays key roles in controlling cell growth and differentiation of hematopoietic cells through mechanisms other than regulating Rac GTPase activity. Also involved in the regulation of growth-related processes in adipocytes and myoblasts. May be involved in regulating spermatogenesis and in the RACGAP1 pathway in neuronal proliferation. Shows strong GAP (GTPase activation) activity towards CDC42 and RAC1 and less towards RHOA. Essential for the early stages of embryogenesis. May play a role in regulating cortical activity through RHOA during cytokinesis. May participate in the regulation of sulfate transport in male germ cells.
Research Articles on Racgap1	**1.** Deletion of MgcRacGAP in the male germ cells impairs spermatogenesis and causes male sterility in the mouse.
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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