Gtpase-Activating Protein and VPS9 Domain-Containing Protein 1 (GAPVD1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	GTPase-activating protein and VPS9 domain-containing protein 1 (Gapvd1), Recombinant Protein
Full Product Name	Recombinant Mouse GTPase-activating protein and VPS9 domain-containing protein 1 (Gapvd1) , partial
Product Gene Name	Gapvd1 recombinant protein
Product Synonym Gene Name	Gapvd1
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	162,273 Da
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 Q6PAR5
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Gapvd1 recombinant protein	MBS1353678 is a recombinant protein targeting Gapvd1. Also known as Recombinant Mouse GTPase-activating protein and VPS9 domain-containing protein 1 (Gapvd1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Gapvd1 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 Gapvd1. It may not necessarily be applicable to this product.

NCBI GI #	40254514
NCBI GeneID	66691
NCBI Accession #	NP_079985.2
UniProt Primary Accession #	Q6PAR5
UniProt Secondary Accession #	Q3TNS1; Q3UDL0; Q3UYD5; Q6ZPP0; Q80V37; Q80ZK4; A0PJI8; A2AR09; A2AR10; A2AR17; A2AR18
UniProt Related Accession #	Q6PAR5
GenBank Nucleotide #	NM_025709.3
NCBI Official Full Name	GTPase-activating protein and VPS9 domain-containing protein 1 isoform 2

NCBI Official Synonym Full Names	GTPase activating protein and VPS9 domains 1
NCBI Official Symbol	Gapvd1
NCBI Official Synonym Symbols	RAP6; RME-6; Gapex-5; AW108497; mKIAA1521; 2010005B09Rik; 4432404J10Rik
UniProt Protein Name	GTPase-activating protein and VPS9 domain-containing protein 1
UniProt Synonym Protein Names	GAPex-5; Rab5-activating protein 6
Protein Family	GTPase-activating protein and VPS9 domain-containing protein
UniProt Gene Name	Gapvd1
UniProt Synonym Gene Names	Gapex5; Kiaa1521
NCBI Protein Information	GTPase-activating protein and VPS9 domain-containing protein 1
UniProt Comments for Gapvd1	Acts both as a GTPase-activating protein (GAP) and a guanine nucleotide exchange factor (GEF), and participates in various processes such as endocytosis, insulin receptor internalization or LC2A4/GLUT4 trafficking. Acts as a GEF for the Ras-related protein RAB31 by exchanging bound GDP for free GTP, leading to regulate LC2A4/GLUT4 trafficking. In the absence of insulin, it maintains RAB31 in an active state and promotes a futile cycle between LC2A4/GLUT4 storage vesicles and early endosomes, retaining LC2A4/GLUT4 inside the cells. Upon insulin stimulation, it is translocated to the plasma membrane, releasing LC2A4/GLUT4 from intracellular storage vesicles. Also involved in EGFR trafficking and degradation, possibly by promoting EGFR ubiquitination and subsequent degradation by the proteasome. Has GEF activity for Rab5 and GAP activity for Ras.
Research Articles on Gapvd1	**1.** the TC10/GAPEX-5/Rab5 axis mediates insulin-stimulated production of PI(3)P, which regulates trafficking of Glut4 vesicles
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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