Receptor Activity-Modifying Protein 2 (RAMP2) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Receptor activity-modifying protein 2 (Ramp2), Recombinant Protein
Full Product Name	Recombinant Rat Receptor activity-modifying protein 2 (Ramp2), partial
Product Gene Name	Ramp2 recombinant protein
Product Synonym Gene Name	Ramp2
Sequence	SPESL NQSHPTEDSL LSKGKMEDYE TNVLPCWYYY KTSMDSVKDW CNWTLISRYY SNLRYCLEYE ADKFGLGFPN PLAESIILEA HLIHFANCSL VQPTFSDPPE DV
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	20,300 Da
Sequence Positions	46-152
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 Q9JHJ1
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ramp2 recombinant protein	This protein is a member of the RAMP family of single-transmembrane-domain proteins, called receptor (calcitonin) activity modifying proteins (RAMPs). RAMPs are type I transmembrane proteins with an extracellular N terminus and a cytoplasmic C terminus. RAMPs are required to transport calcitonin-receptor-like receptor (CRLR) to the plasma membrane. CRLR, a receptor with seven transmembrane domains, can function as either a calcitonin-gene-related peptide (CGRP) receptor or an adrenomedullin receptor, depending on which members of the RAMP family are expressed. In the presence of this (RAMP2) protein, CRLR functions as an adrenomedullin receptor. The RAMP2 protein is involved in core glycosylation and transportation of adrenomedullin receptor to the cell surface.
Other Notes	Small volumes of Ramp2 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.
Searchable Terms for Ramp2 purchase	MBS1306639 is a recombinant protein targeting Ramp2. Also known as Recombinant Rat Receptor activity-modifying protein 2 (Ramp2), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ramp2. It may not necessarily be applicable to this product.

NCBI GI #	13928892
NCBI GeneID	58966

NCBI Accession #	NP_113834.1
UniProt Primary Accession #	Q9JHJ1
UniProt Related Accession #	Q9JHJ1
GenBank Nucleotide #	NM_031646.1
NCBI Official Full Name	receptor activity-modifying protein 2
NCBI Official Synonym Full Names	receptor activity modifying protein 2
NCBI Official Symbol	Ramp2
UniProt Protein Name	Receptor activity-modifying protein 2
Protein Family	Receptor activity-modifying protein
UniProt Gene Name	Ramp2
NCBI Protein Information	receptor activity-modifying protein 2
NCBI Summary for Ramp2	transports calcitonin receptor-like receptor (Calcr) to the cell membrane and determine its glycosylation state and ligand specificity as a functional adrenomedullin receptor [RGD, Feb 2006]
UniProt Comments for Ramp2	Transports the calcitonin gene-related peptide type 1 receptor (CALCRL) to the plasma membrane. Acts as a receptor for adrenomedullin (AM) together with CALCRL.
Research Articles on Ramp2	**1.** Increased expression of IMD and all its receptor components (CRLR, RAMP1, RAMP2, and RAMP3) were displayed within the aorta of rats with Hypercholesterolemia.
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