OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

# AR51338PU-S Human RAMP1 (27-117, His-tag) - Purified

**Alternate names:** CRLR activity-modifying protein 1, Calcitonin-receptor-like receptor activity-modifying protein 1, RAMP-1, Receptor activity-modifying protein 1

**Quantity:** 50 µg

**Concentration:** 0.25 mg/ml (determined by Bradford assay)

**Background:** RAMP 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 (RAMP1) protein, CRLR functions as a CGRP receptor. The RAMP1 protein is involved in the terminal glycosylation, maturation, and presentation of the CGRP receptor to the cell surface.

**Uniprot ID:** O60894

**NCBI:** NP_005846

**GeneID:** 10267

**Species:** Human

**Source:** E. coli

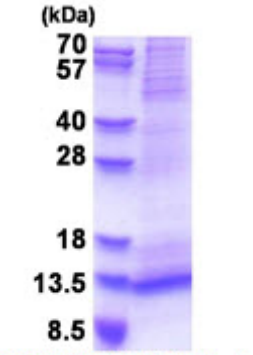
**Format:**
**State:** Liquid purified protein
**Purity:** >80% by SDS - PAGE
**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

**Description:** Recombinant human RAMP1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
**AA Sequence:**
MGSSHHHHHH SSGLVPRGSH MGSCQEANYG ALLRELCLTQ FQVDMEAVGE TLWCDWGRTI RSYRELADCT WHMAEKLGCF WPNAEVDRFF LAVHGRYFRS CPISGRAVRD PPGS
**Molecular weight:** 12.9 kDa (114aa)

**Storage:** Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:** Kusano S, Kukimoto-Niino M, et al. (2008). Protein Sci. 17(11):1907-14. Héroux M, Hogue M, et al. (2007). J Biol Chem. 282(43):31610-20.

Pictures:



15% SDS-PAGE (3ug)