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AR51338PU-N 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: 0.25 mg

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

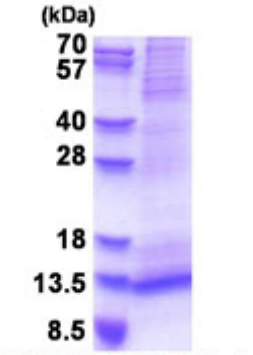
Format:
State: Liquid purified protein
Purity: >80% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

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)