

RAMP1, 27-117aa, Human, His tag, E.coli

Cat.NO.: TP03667

3th Edition

Synonyms: Receptor activity-modifying protein 1 precursor, CRLR activity-modifying protein 1, Calcitonin-receptor-like receptor activity-modifying protein 1, Receptor activity-modifying protein 1, receptor (G protein-coupled) activity modifying protein 1

Description: 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. Recombinant human RAMP1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Molecular Weight: 12.9 kDa (114aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSCQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRITIRSYRELADCTWHM
AEKLGCFWPNAEVDRFFLAVHGRYFRSCPISGRAVRDPPGS

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.