

Recombinant Human receptor (G protein-coupled) activity modifying protein 1, His-tagged

Cat. No. RAMP1-421H Lot. No. (See product label)

SPECIFICATION

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

Species Human

Source E.coli

ProteinLength 27-117 a.a.

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 Mass 12.9 kDa (114aa)

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AA Sequence	MGSSHHHHHH SSSLVPRGSH MGSCQEANYG ALLRELCLTQ FQVDMEAVGE TLWCDWGRTI RSYRELADCT WHMAEKL GCF WPNAEVD RFF LAVHGRYFRS CPISGRAVRD PPGS
Purity	>80% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	RAMP1 receptor (G protein-coupled) activity modifying protein 1 [Homo sapiens]
Official Symbol	RAMP1
Synonyms	RAMP1; receptor (G protein-coupled) activity modifying protein 1; receptor (calcitonin) activity modifying protein 1 , receptor activity modifying protein 1; receptor activity-modifying protein 1; CRLR activity-modifying protein 1; receptor activity modifying protein 1; receptor (calcitonin) activity modifying protein 1; calcitonin receptor-like receptor activity modifying protein 1; calcitonin-receptor-like receptor activity-modifying protein 1;
Gene ID	10267
mRNA Refseq	NM_005855
Protein Refseq	NP_005846
MIM	605153

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UniProt ID	O60894
Chromosome Location	2q36-q37.1
Pathway	Calcitonin-like ligand receptors, organism-specific biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Signal Transduction, organism-specific biosystem;
Function	calcitonin receptor activity; calcitonin receptor binding; coreceptor activity; protein binding; protein transporter activity; receptor activity;

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