
Product Data Sheet

Product Name: RAMP1 Human
 Cat. No.: GP24327
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Receptor (G Protein-Coupled) Activity Modifying Protein 1; Receptor (Calcitonin) Activity Modifying Protein 1; Calcitonin-Receptor-Like Receptor Activity-Modifying Protein 1; CRLR Activity-Modifying Protein 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSCQEANYG ALLRELCLTQ FQVDMEAVGE TLWCDWGRTI RSYRELADCT WHMAEKLKGC WPNAEVD RFF LAVHGRYFRS CPISGRAVRD PPGS		
Formulation	The RAMP1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

RAMP belongs to the type I transmembrane family of proteins called RAMP (receptor/calcitonin activity modifying proteins) which include an extracellular N terminus and a cytoplasmic C terminus. RAMPs are essential for CRLR transport to the plasma membrane. CRLR (calcitonin-receptor-like receptor) has seven transmembrane domains. Depending on which members of the RAMP family are expressed CRLR receptor functions as either an adrenomedullin receptor or a calcitonin-gene-related peptide (CGRP) receptor. In the presence of RAMP1, CRLR functions as a CGRP receptor. The RAMP1 protein takes part in the terminal glycosylation, maturation, and presentation of the CGRP receptor to the cell surface.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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RAMP1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 114 amino acids (27-117) and having a molecular mass of 12.9 kDa. RAMP1 is fused to a 23 amino acid His-tag at N-terminus.

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