For Research Use Only

Recombinant Mouse RAMP2 protein (rFc Tag)

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Catalog Number: Eg9065

Basic Information

Species: Mouse

Purity: >90 %, SDS-PAGE

Tag: rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse RAMP2 protein Ser45-Glu157 (Accession# Q9WUP0) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
54409

Accession:
Q9WUP0

Predicted Molecular Mass:
38.5 kDa

SDS-PAGE:
48-68 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

RAMP2 (receptor-activity-modifying protein) is a member of the RAMP family of single-transmembrane-domain proteins which consist of an N-terminal extracellular domain, a transmembrane region and a short intracellular C-terminal tail. RAMPs are required to transport calcitonin-receptor-like receptor (CRLR) to the plasma membrane. CRLR, a G protein-coupled receptor, 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. RAMP1 transports the CRLR to the plasma membrane and then remains associated with it to function as a terminally glycosylated CGRP receptor, while RAMP2 and RAMP3 transfer the CRLR to the cell surface to generate receptors that are preferentially selective for adrenomedullin.

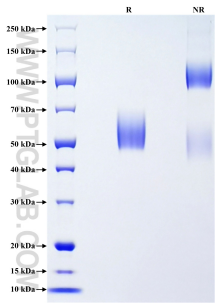
References

1. McLatchie, L M et al. Nature vol. 393,6683 (1998): 333-9.
2. Bouschet, Tristan et al. Journal of cell science vol. 118,Pt 20 (2005): 4709-20.

Synonyms

Receptor activity-modifying protein 2

Selected Validation Data



Purity of Recombinant Mouse RAMP2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.