

Recombinant Mouse Calcitonin/CALCA Protein

Catalog No.: RP02196 **Recombinant** **1 Publications**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12310	Q99JA0

Tags

C-hFc

Synonyms

Calca; Calc \square Calcitonin gene-related peptide 1; CGRP1; Alpha-type CGRP; Calcitonin gene-related peptide I; CGRP-I

Product Information

Source	Purification
HEK293 cells	$\geq 90\%$ as determined by SDS-PAGE.

Calculated MW	Observed MW
36.9 kDa	42-46 kDa

Endotoxin

< 0.01 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). 5% trehalose, 0.01% Tween80 are added as protectants before lyophilization. Please contact us for any concerns or special requirements.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

 | 400-999-6126

Background

CGRP1/CALCA is a peptide hormone that induces vasodilation mediated by the CALCRL-RAMP1 receptor complex. Dilates a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role. It also elevates platelet cAMP. CGRP1 can also bind and activate CALCRL-RAMP1 (AMYR1) receptor complex.

Basic Information

Description

Recombinant Mouse Calcitonin/CALCA Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val26-Asp119) of Mouse Calcitonin/CALCA (Accession #NP_001029126.1) fused with hFc tag at the C-Terminus.

Bio-Activity

Shipping

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

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

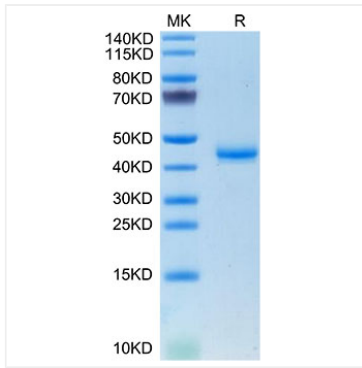
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

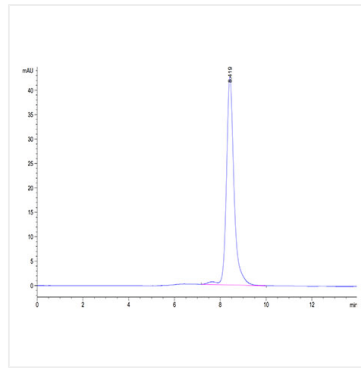
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse Calcitonin/CALCA Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Mouse CALCA/CGRP is greater than 95% as determined by SEC-HPLC.