

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

Calcitonin; CCP; PDN-21; CALCA; CALC1;
CGRP; CGRP-I; CGRP1; CT; KC; PCT;
Procalcitonin; Calcitonin 1; Katalcalcin

Product Information

Source	Purification
HEK293 Cells	> 95% as determined by HPLC.

Calculated MW	Observed MW
36.9 kDa	42-46 kDa

Endotoxin

<1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube 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

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Background

Specific fragments of methylation changes in the target gene (Calca) were identified by IGV analysis. CGRP was applied to compare the effects on ASCs-T2DM morphology via phalloidin staining, proliferation through CCK-8 assay, and osteogenic differentiation with osteogenic staining, qPCR, and repair of calvarial defect. Furthermore, 5-azacytidine (5-az) was used to intervene ASCs-T2DM to verify the relationship between the methylation level of the target fragment and expression of Calca.

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

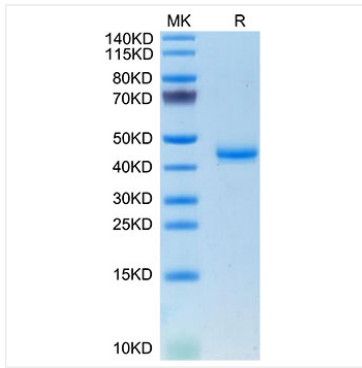
Storage

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

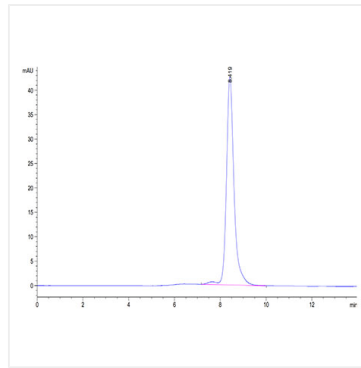
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Mouse CALCA/CGRP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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