

# **Recombinant Mouse Calcitonin/CALCA Protein**

Catalog No.: RP02196 Recombinant 1 Publications

### **Sequence Information**

Species Gene ID Swiss Prot Mouse 12310 Q99|A0

Tags

C-hFc

**Synonyms** 

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

## **Product Information**

**Source** Purification HEK293 Cells ≥ 95 % as

determined by SDS-PAGE.≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

36.9 kDa 42-46 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

#### **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 stablizer (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**

#### 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.

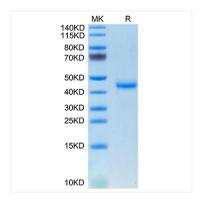
After reconstitution, the protein solution is stable at -20  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

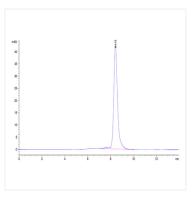
#### **Operational Notes**

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.