

Recombinant Green monkey Calcitonin/CT Protein (His Tag)

Catalog Number: PDMC100004

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

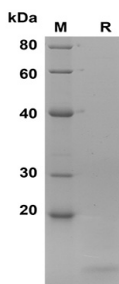
Description

Species	Green monkey
Source	Mammalian-derived Green monkey Calcitonin protein Ala26-Asn140, with an C-terminal His
Calculated MW	12.5 kDa
Observed MW	15 kDa
Accession	A0A0D9QXH0
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Green monkey Calcitonin/CT proteins, 2 µg/lane of Recombinant Green monkey Calcitonin/CT proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 15 kDa.

Background

Calcitonin(CT) is a protein hormones consist of 115aa with a disulfide bond. Calcitonin (CT) is most effectively produced by the parafollicular cells of the thyroid gland. It acts through the calcitonin receptor (CTR), a seven-transmembrane class II G-protein-coupled receptor linked to multiple signal transduction pathways with its main secretagogues being calcium and gastrin. Calcitonin regulates blood calcium levels and possesses certain clinically useful anti-fracture properties.

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