Synthetic Human C-Peptide

**Catalog No.:** CRC114

**Alternate Names:** Proinsulin connecting peptide, C-Peptide protein

**Description:** Proinsulin C-peptide was first described in 1967 in connection with the discovery of the insulin biosynthesis. It serves as an important linker between the A- and the B- chains of insulin and facilitates the efficient assembly, folding, and processing of insulin in the endoplasmic reticulum. Equimolar amounts of C-peptide and insulin are then stored in secretory granules of the pancreatic beta cells and both are eventually released to the portal circulation. Initially, the sole interest in C-peptide was as a marker of insulin secretion and has as such been of great value in furthering the understanding of the pathophysiology of type 1 and type 2 diabetes. The first documented use of the C-peptide test was in 1972. During the past decade, however, C-peptide has been found to be a bioactive peptide in its own right, with effects on microvascular blood flow and tissue health.

**Source:** Synthetic

**Formulation:** Lyophilized powder purified by HPLC.

**Purity:** > 95% pure


**Reconstitution:** Centrifuge vial prior to opening. Soluble in distilled water at 1 mg/ml.

**Storage & Stability:** Aliquot and store at -20°C. Avoid repeated freeze-thaw cycles.

*NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.*