

Synthetic Human C-Peptide

Catalog No.	CRC114	Quantity:	50 µg
Alternate Names:	Proinsulin connecting peptide, C-Peptide protein		
Description:	<p>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.</p>		
Source:	Synthetic		
Formulation:	Lyophilized powder purified by HPLC.		
Purity:	> 95% pure		
Amino Acid Sequence:	Region of C Peptide protein corresponding to amino acids Arg-Arg-Glu-Ala-Glu-Asp-Leu-Gln-Val-Gly-Gln-Val-Glu-Leu-Gly-Gly-Gly-Pro-Gly-Ala-Gly-Ser-Leu-Gln-Pro-Leu-Ala-Leu-Glu-Gly-Ser-Leu-Gln-Lys-Arg.		
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.		

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