

C-peptide protein

Basic information:

Catalog No.:	UDP9049-1	Source:	Human
Expression Host:	<i>Escherichia coli</i>	Type:	Recombinant protein
Purity:	>90% as determined by SDS-PAGE		

Useful Information:

Construction:

A DNA sequence encoding the C-peptide protein was expressed with Trx-tag in N terminus.

Molecular Mass:

The recombinant human C-peptide protein consists of 31 amino acids.

Formulation:

Liquidin PBS, pH7.4.

Biological Activity

N/A

Endotoxin:

N/A

Storage:

Recombinant proteins are provided as frozen liquid which are shipped with dry ice. Bulk packages can be provided as lyophilized powder which shipped with blue ice.

Reconstitution:

According to the application.

Description:

Proinsulin, a molecular weight of 8kDa to 10kDa, is a precursor of insulin. It has minimum hormonal activity and is converted to insulin by removal of the connecting C-peptide. Mature insulin has 35 fewer amino acids; 4 are removed altogether and the remaining 31 form the C-peptide. The C-peptide is abstracted from the center of the proinsulin sequence; the two other ends (the B chain and A chain) remain connected by disulfide bonds. Insulin decreases blood glucose concentration. It increases cell permeability to monosaccharides, amino acids and fatty acids. It accelerates glycolysis, the pentose phosphate cycle and glycogen synthesis in liver.

Note:

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