

## Datasheet for ABIN2648560 C-Peptide ELISA Kit



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### Overview

Quantity:	96 tests
Target:	C-Peptide
Reactivity:	Human
Application:	ELISA

### Product Details

Sample Type:	Serum, Plasma
Detection Method:	Colorimetric
Specificity:	Ultrasensitive ELISA
Sensitivity:	0.57 pg/ml

**Characteristics:** C-peptide is a small 31-amino acid peptide usually produced in the beta cell of pancreas as a byproduct of the cleavage of proinsulin in the synthesis of insulin. Proinsulin consists of A and B chain and connecting peptide in the middle, called C-peptide. It is generally found in equimolar amounts equal to insulin in circulation. Since the half-life of C-peptide is 3-4 times that of insulin, it serves as a useful measure of insulin production in the beta cells of the pancreas. Testing for C-peptide levels can help find the cause of low blood sugar (hypoglycemia) aid in distinguishing type 1 from type 2 diabetes. A person with diabetes may have a normal level of C-peptide which indicates the body is making plenty of insulin but the body is just not responding properly to it. This is the hallmark of type 2 diabetes (adult insulin-resistant diabetes). For subjects with type 1 diabetes treated with insulin, measuring C-peptide level is useful in evaluating beta cell function related to synthesis and release endogenous insulin into the circulation. Some studies have suggested that C-peptide may have chemotactic effects on

## Product Details

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the inflammatory cells and might have a role in increased risk of atherosclerosis in persons with type-2 diabetes.

## Target Details

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Target: C-Peptide

Abstract: [C-Peptide Products](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

Sample Volume: 50 µL

Assay Time: 2.5 h

Restrictions: For Research Use only

## Handling

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Storage: 4 °C