



ELIZEN PROINSULIN

Immunoenzymometric assay for the quantitative determination of **Intact Proinsulin in human serum and plasma**



ORDERING INFORMATION

Code : **E-BX-96**

Package Size : 96 tests/kit



Indications

- The measurement of Intact Proinsulin in serum provides a useful valuable information for the diagnosis of insulinomas. Proinsulin levels have also been shown to be elevated in non-insulin dependent diabetics (NIDDM), in insulin dependant diabetics (IDDM) and other clinical situations as renal failure, cirrhosis, or hyperthyroidism.
- High proinsulin concentrations are usually observed in patients with benign or malignant β -cell tumours of the pancreas.

Features

- Highest specificity and sensitivity
- Detects only the intact Proinsulin form, no cross-reaction with insulin, C-peptide and "des" and "split" forms
- Calibrated against IRR 84/611
- Easy handling
- Results within 2 hours

Performance characteristics

- Detection limit: 0.6 pmol/L
- Measuring range: 0 to 100 pmol/L
- Intra & inter assay CV: < 3.2 %

Kit contents

Reagents	Quantity	Physical state
Microtiterplate	1 x 96 breakable wells	Ready for use
Calibrator 0	1 x 3 ml	Lyophilized
Calibrators 1 – 5	5 x 1 ml	Lyophilized
Control Sera	2 x 1 ml	Lyophilized
HRP conjugate	1 x 11 ml	Ready for use
Blocking buffer	1 X 1.5 ml	Ready for use
Washing Solution	1 x 40 ml	Concentrated 10 x
Chromogenic substrate	2 x 15 ml	Ready for use
Stop solution	1 x 15 ml	Ready for use



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DIABETES METABOLISM

ELIZEN PROINSULIN



Assay procedure

ELIZEN PROINSULIN is a sensitive two-site sandwich ELISA assay. The microtiter plates are coated with a monoclonal antibody (S2) specific for epitope at the C-peptide/insuline A chain junction. S2 is able to bind intact PI, des (31,32)-PI and split (32,33)-PI but not insulin, C-peptide and the other "des" and "split" forms. Enzyme labelled anti-proinsulin antibody is specific for the epitopes at insulin chain/C-peptide junction (S53)*. This second antibody is able to bind to intact PI, des (64,65)-PI and split (65,66)-PI but not insulin, C-peptide and other «des» and «split» forms. The combination of these two mutually exclusive antibodies has the ability to detect only the intact human proinsulin.

Reagents	Quantity
Blocking buffer	10 µL
Calibrators, controls and samples	100 µL
Incubation 20-25°C (room temperature)	30 min
Washing	3 x 300 µL
HRP conjugate	100 µL
Incubation 20-25°C (room temperature)	60 min
Washing	3 x 300 µL
Chromogenic substrate	200 µL
Incubation 20-25°C (room temperature)	15 min
Stop solution	100 µL

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(* see Houssa & al. Clinical Chemistry 44:7, 1514 ; Deberg & al Clinical Chemistry 44:7, 1504)