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ELISA Kit for N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP)

Catalog No: tcue1366

Available Sizes

Size: 96T

Specifications

Research Area:
Endocrinology;Cardiovascular biology;

Species Reactivity:
Homo sapiens (Human)

Sample Type:
serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids

Sensitivity:
The minimum detectable dose of this kit is typically less than 15pg/mL

Detection Range:
39-2500pg/mL

Assay Time:
3h

Detection Method:
Enzyme-linked immunosorbent assay for Antigen Detection.

Tested Application:
ELISA

SwissProt:
P16860

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Test Principle

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of N-Terminal Pro-Brain Natriuretic Peptide (NT-ProBNP) in the samples is then determined by comparing the O.D. of the samples to the standard curve.