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ELISA Kit for Matrix Gla Protein (MGP)

Catalog No: tcue683

Available Sizes

Size: 96T

Specifications

Research Area:
Metabolic pathway;Hematology;Bone metabolism;

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 0.254ng/mL

Detection Range:
0.625-40ng/mL

Assay Time:
3h

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

Tested Application:
ELISA

SwissProt:
P08493

Test Principle

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated

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with an antibody specific to Matrix Gla Protein (MGP). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Matrix Gla Protein (MGP). 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 Matrix Gla Protein (MGP), 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 Matrix Gla Protein (MGP) in the samples is then determined by comparing the O.D. of the samples to the standard curve.