



TSP-1 (Thrombospondin-1) BioAssay™ ELISA Kit (Human)

Catalog number

384749

Supplier

United States Biological

Sample Type:

Serum, Plasma, Biological Fluids

Intended Use

This BioAssay™ kit is a sandwich ELISA for in vitro quantitative measurement of TSP-1 in human serum, plasma and other biological fluids

Sensitivity

4.688ng/mL

Range

7.813-500ng/mL

Specificity

Human

Test Principle

This BioAssay™ ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to human TSP-1 (Thrombospondin-1). Standards or samples are added to the appropriate micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for human TSP-1 (Thrombospondin-1) and Avidin-Horseradish Peroxidase (HRP) conjugate are added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain human TSP-1 (Thrombospondin-1), biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by adding Stop Solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The OD value is proportional to the concentration of human TSP-1 (Thrombospondin-1). The concentration of human TSP-1 (Thrombospondin-1) in samples can be calculated by comparing the OD of the samples to the standard curve.

Kit Components

Microtiter Strips, 8x12 wells
Standard, 2 vials
Sample/Standard Diluent Buffer, 1x20ml
Antibody-Biotin, 1x120ul
Antibody-Biotin Diluent, 1x10ml
HRP Conjugate, 1x120ul
HRP Conjugate Diluent, 1x10ml



Substrate Reagent, 1x10ml
Stop Solution, 1x10ml
Wash Buffer (25X), 1x30ml

Storage and Stability

Unused kit is stable for 6 months after receipt. Store Microtiter Strips, Standard, and Antibody-Biotin at 4°C if kit will be used within 30 days; otherwise store at -20°C until expiration date. Store the rest of the components at 4°C. Protect HRP Conjugate and Substrate Reagent from light. For maximum recovery, centrifuge the original vials after thawing and prior to removing the cap.

Applications

E

Storage

4°C/-20°C

Tests

4.688ng/mL

Sensitivity

100ul

Sample Volume

Serum, Plasma, Biological Fluids

Sample Matrix

7.813-500ng/mL

Detection Range

Colorimetric

Antigen Modification

Human

Antigen Source

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