

BA226**Native Human Fibrinogen (Plasmin + Plasminogen free)****Alternate names:**

FGA, FGB, FGG

Quantity:

25 mg

Concentration:

1.25 mg/ml Fibrinogen

Background:

Fibrinogen is the main protein of blood coagulation system. It is a large protein and it consists of two identical subunits that contain three polypeptide chains: alpha, beta and gamma. All chains are connected with each other by a number of disulfide bonds. Fibrinopeptides A (1 to 16 amino acids) and B (1 to 17 amino acids) are released by thrombin from the N terminal parts of alpha and beta chains, respectively. In this way fibrinogen is converted into fibrin, which by means of polymerization forms a fibrin clot. Fibrinogen clotting underlies pathogenesis of MI, thromboembolism and thromboses of arteries and veins, since fibrin is the main substrate for thrombus formation. Fibrinogen activation is also involved in pathogenesis of inflammation, tumor growth and many other diseases.

The normal fibrinogen concentration in plasma is about 3 mg/ml. The elevated level of fibrinogen in patient's blood is regarded as an independent risk factor for cardiovascular diseases. An increase in blood fibrinogen concentration was shown to be a strong predictor of coronary heart disease (Sonel A. et al, and Rapold H.J. et al). All these facts make fibrinogen an important parameter in the diagnosis of cardiovascular diseases.

Species:

Human

Source:

Serum, Human plasma (Cohn's fraction I)

Format:**State:** Liquid purified by precipitation.**Purity:** 35-65% protein, of which $\geq 90\%$ clottable protein.

Virtually free from plasminogen and plasmin.

Buffer System: Citrate Buffered Saline**Preservatives:** None**Stabilizers:** None**Applications:****ELISA.****Functional Assays.**

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description:

Native Human Fibrinogen.

Purified protein from Human plasma.

Molecular weight: 340 kDa**Add. Information:**

Vial contains 20 ml of liquid equivalent to ~25 mg Fibrinogen.

Storage:

Upon receipt, store undiluted (in aliquots) at -20°C.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Caution:

The source material for this product was tested and found negative for antibodies to HIV-1, HIV-2, antibodies to HCV and for HBsAg.