

Fibrinogen (Human) Plasminogen depleted, 1.0 g



Ref#: HFG1
Lot#: xxxxxx
Exp. Date: xxxx-xx

Store at +2 to +8°C

For Research Use Only
Not for Use in Diagnostic Procedures
For *in vitro* use only

Description:	Fibrinogen (Human), Plasminogen depleted
Format:	Lyophilized in 20 mM Sodium citrate-HCl / pH 7.4
Host:	Human
Storage:	Store between +2 and +8°C After reconstitution aliquot and freeze at ≤-60°C
Volume:	1 vial containing 22.717 mL
Total Protein:	1.0 g
Concentration:	44.02 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E_{280}^{1\%} = 15.1$
Activity:	100% Clottable
Molecular weight:	340000 daltons

Fibrinogen is an abundant plasma protein (5-10 μ M) synthesized in the liver. The intact protein has a molecular weight of 340 kDa and is composed of 3 pairs of disulphide-bound polypeptide chains named A α , B β and γ . Fibrinogen is a triglobular protein consisting of a central E domain and terminal D domains. Proteolysis by thrombin results in release of Fibrinopeptide A (FPA, A α 1-16) followed by Fibrinopeptide B (FPB, B β 1-14) and the fibrin monomers that result polymerize in a half-overlap fashion to form insoluble fibrin fibrils. The chains of fibrin are referred to as α , β and γ , due to the removal of FPA and FPB. The polymerised fibrin is subsequently stabilized by the transglutaminase activated Factor XIII that forms amide linkages between γ chains and, to a lesser extent, α chains of the fibrin molecules. Proteolysis of fibrinogen by plasmin initially liberates C-terminal residues from the A α chain to produce fragment X (intact D-E-D, which is still clottable).

The plasminogen depleted Fibrinogen is homogeneous as judged on a 4-20% gradient gel. The plasminogen was depleted using affinity chromatography.

We recommend hydrating the protein with warmed sterile water or buffer to the original volume. The hydration should take place in 37°C water bath to ensure all protein solubilizes. After hydration aliquot into a useful (one time use) size and freeze at ≤-60°C.

The above protein was purified from Human plasma that was tested and found negative by FDA accepted methods for Anti-HIV 1/2, Anti-HTLV I & II, HBsAg, Anti-HCV, Syphilis, HBC Ab, HIV-1 p24 Ag or HIV-1 RNA, HCV RNA and HBV RNA. Donors are screened for CJD (Creutzfeld-Jakob Disease).