

## Human Fibrinogen (from plasma)

Catalog Number: bs-1240P

AA Seq: Purified native protein

Activity: Yes

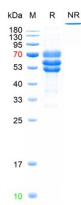
Endotoxin: Not analyzed

Purity: 50-70% protein basis (biuret)

Storage: Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**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.

### VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.

### PRODUCT SPECIFIC PUBLICATIONS

**[IF=3.55]** Huang, Mo, et al. "Solidified liquid layer model makes quartz crystal microbalance a convenient molecular ruler." Colloids and Surfaces B: Biointerfaces 85.1 (2011): 92-96. Other ;="" . 21093226