

## Fga, Fgb, Fgg Native Mouse Fibrinogen

<b>Catalog No.</b>	CRF135B	<b>Quantity:</b>	1.0 mg
	CRF135C		10 mg

**Description:** Fibrinogen, also called Factor I, is the principal protein of vertebrate blood clotting forming a hexamer containing two sets of three different chains (alpha, beta, and gamma), linked to each other by disulfide bonds. The N-terminal sections of these three chains contain the Cysteines that participate in the cross-linking of the chains. The C-terminal parts of the alpha, beta and gamma chains contain a domain of about 225 amino acid residues, which can function as a molecular recognition unit, engage in protein-protein interactions, and bind carbohydrates. On the Fibrinogen alpha and beta chains, there is a small peptide sequence (called a Fibrinopeptide) that prevents Fibrinogen from spontaneously forming polymers with itself. Fibrinogen is the precursor of Fibrin. Fibrin, also called Factor Ia, is a fibrous protein involved in the clotting of blood, and is non-globular.

Native Mouse Fibrinogen is prepared from fresh mouse plasma using several chromatographic steps. Plasminogen depleted by lysine affinity chromatography.

**UniProt ID:** E9PV24, Q99K47, Q8K0E8, Q8VCM7

**Gene ID:** 14161, 110135, 99571

**Source:** Mouse plasma

**Molecular Weight:** 340 kDa

**Formulation:** Liquid in 0.02 M Sodium Citrate-HCl, pH 7.4

**Purity:** >95% by SDS-PAGE

**Concentration:** >2.0 mg/ml, lot specific

**Extinction Coefficient:**  $E^{0.1\%}_{280nm} = 1.51$

**Biological Activity:** > 80% Clottable

**Handling:** Thaw at 37°C without agitation until completely liquid, then gently mix before use. Keep fibrinogen at 25-37°C, aliquot and flash freeze unused portion.

**Storage & Stability:** Store at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. **Avoid repeated freeze-thaw cycles.**

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