Active Native Human Fibrinogen (plasminogen depleted)

Cat. No. FGA-80H **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	Human Plasma
Description	Fibrinogen is an acute phase protein that is part of the coagulation cascade of proteins. The end result of the cascade is the production of thrombin that converts fibrinogen to fibrin. Thrombin rapidly proteolysis fibrinogen, releasing fibrinopeptide A. The loss of this small peptide is not sufficient to make the resulting fibrin molecule insoluble, but it tends to form complexes with adjacent fibrin and fibrinogen molecules. Thrombin then cleaves a second peptide, fibrinopeptide B, from fibrin and the fibrin monomers formed then polymerize spontaneously to form an insoluble gel. The polymerized fibrin is held together by noncovalent and electrostatic forces and stabilized by the transamidating enzyme, factor XIIIa that is produced by the action of thrombin on factor XIII. The insoluble fibrin aggregates (clots) and aggregated platelets then block the damaged blood vessel and prevent further bleeding. The amount of fibrinogen in the plasma can serve as a nonspecific indicator of whether or not an inflammatory process is present in the body. Fibrinogen from any mammalian source will be cleaved by thrombin from any mammalian source.
Form	Liquid
Bio-activity	>95% clottable by functional assays
Molecular Mass	330.00 kDa

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Purity	Purity by SDS-PAGE: ≥95%
Usage	For Research Use Only! Not For Use in Humans.
Notes	Centrifuge the vial prior to opening
Storage	-80°C
Storage Buffer	In 20 mM Sodium Citrate-HCl pH 7.4.
Shipping	Dry Ice

GENE INFORMATION

Gene Name	FGA fibrinogen alpha chain [Homo sapiens]
Official Symbol	FGA
Synonyms	FGA; fibrinogen alpha chain; fibrinogen, A alpha polypeptide; Fib2; MGC119422; MGC119423; MGC119425;
Gene ID	2243
mRNA Refseq	NM_000508
Protein Refseq	NP_000499
UniProt ID	P02671
Chromosome Location	4q28

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Pathway	Amyloids, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Disease, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem;
Function	eukaryotic cell surface binding; protein binding; protein binding, bridging; receptor binding;

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