

Recombinant Human FGG, His-tagged

Cat. No. FGG-103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Fibrinogen γ Chain/FGG is produced in human cells. The target protein is expressed with sequence (Tyr27-Asp130) of Human FGG fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	27-130 a.a.
Description	The protein encoded by this gene is the gamma component of fibrinogen, a blood-borne glycoprotein comprised of three pairs of nonidentical polypeptide chains. Following vascular injury, fibrinogen is cleaved by thrombin to form fibrin which is the most abundant component of blood clots. In addition, various cleavage products of fibrinogen and fibrin regulate cell adhesion and spreading, display vasoconstrictor and chemotactic activities, and are mitogens for several cell types. Mutations in this gene lead to several disorders, including dysfibrinogenemia, hypofibrinogenemia and thrombophilia. Alternative splicing results in two transcript variants encoding different isoforms.
Form	Lyophilized from a 0.2 μ M filtered solution of 20mM PB, 150mM NaCl, pH 7.4
AA Sequence	YVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLEDILHQVENKTSEVK QLIKAIQ LTYNPDESSKPNMIDAATLKSRKMLEEIMKYEASILTHDVDHHHHHH

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Endotoxin	Less than 0.1 ng/g (1 IEU/g).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	FGG fibrinogen gamma chain [Homo sapiens]
Official Symbol	FGG
Synonyms	FGG; fibrinogen gamma chain; fibrinogen, gamma polypeptide
Gene ID	2266
mRNA Refseq	NM_000509
Protein Refseq	NP_000500
MIM	134850
UniProt ID	P02679

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Chromosome Location	4q28
Pathway	Blood Clotting Cascade; Common Pathway; Complement and coagulation cascades
Function	eukaryotic cell surface binding; protein binding, bridging; receptor binding

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