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**Product Data Sheet**


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Product Name: FGG Human  
 Cat. No.: GP23493  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fibrinogen gamma chain isoform gamma-A; Fibrinogen gammachain; PRO2061.		
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MGSYVATRDN CCILDERFGS YCPTTCGIAD FLSTYQTKVD KDLQSLEDILHQVENKTSEV KQLIKAIQLT YNPDESSKPN MIDAATLKSR KMLEEIMKYE ASILTHDSSI RYLQEIYNSNNQKIVNLKEK VAQLEAQCQE PCKDTVQIHD ITGKDCQDIA NKGAKQSGLY FIKPLKANQQ FLVYCEIDGS GNGWTVFQKRLDGSVDFKKN WIQYKEGFGH LSPTGTTEFW LGNEKIHLLIS TQSAIPYALR VELEDWNGRT STADYAMFKVGP EADKYRLT YAYFAGGDAG DAFDGFDFGD DPSDKFFTSH NGMQFSTWDN DNDKFEGNCA EQDGSGWWMN KCHAGHLNGVYYQGGTYSKA STPNGYDNGI IWATWKTRWY SMKKTMMKII PFNRLTIGEG QQHHLGGAKQ AGDV.		
Formulation	FGG protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.		

**Introduction**

Fibrinogen gamma chain isoform gamma-A (FGG) is the gamma component of fibrinogen, which is a blood-borne glycoprotein, comprised of 3 pairs of nonidentical polypeptide chains. FGG along with fibrinogen alpha (FGA) and fibrinogen beta (FGB) polymerizes to form an insoluble fibrin matrix. Following vascular injury, FGG is cleaved by thrombin to create fibrin, which is the most abundant component of blood clots. FGG functions during the early stages of wound repair to stabilize the lesion and guide cell migration during re-epithelialization. Moreover, different cleavage products of fibrinogen and fibrin regulate cell adhesion and spreading, exhibit vasoconstrictor and chemotactic activities, and are mitogens for a number of cell types. Maternal fibrinogen is vital for successful pregnancy. FGG gene mutations lead to some disorders, including

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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dysfibrinogenemia, hypofibrinogenemia and thrombophilia. Fibrin accumulation is also linked with infection, where it protects against IFNG-mediated hemorrhage.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FGG Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 434 amino acids (27-437 a.a) and having a molecular mass of 48.9kDa. FGG is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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