FGG/Fibrinogen gamma chain Protein, Human (P.pastoris)

Cat. No.:	HY-P75772
Synonyms:	Fibrinogen gamma chain; FGG; PRO2061
Species:	Human
Source:	P. pastoris
Accession:	P02679 (V169-L453)
Gene ID:	2266
Molecular Weight:	Approximately 32.2 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	Fibrinogen gamma chain (FGG/Fibrinogen gamma chain) protein, in concert with fibrinogen alpha (FGA) and fibrinogen beta (FGB), polymerizes to create the insoluble fibrin matrix, a pivotal component in blood clot formation during hemostasis. Beyond its role in coagulation, this protein contributes to early wound repair by stabilizing lesions and guiding cell migration in re-epithelialization. Initially believed to be essential for platelet aggregation, subsequent studies revealed that it is not absolutely required for thrombus formation in vivo. FGG/Fibrinogen gamma chain enhances the expression of SELP in activated platelets via an ITGB3-dependent pathway. Essential for successful pregnancy, maternal fibrinogen plays a crucial role, and fibrin deposition is associated with infection, providing protection against IFNG-mediated hemorrhage. Furthermore, FGG/Fibrinogen gamma chain may facilitate the antibacterial immune response through both innate and T-cell mediated pathways. Structured as a heterohexamer with two sets of three non-identical chains (alpha, beta, and gamma), the protein's conformation places the N-termini in a small central domain.

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

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