



# Recombinant Human Fibrinogen beta chain (FGB), partial

<b>Product Code</b>	CSB-EP008608HU
<b>Relevance</b>	Cleaved by the protease thrombin to yield monomers which, together with fibrinogen alpha (FGA) and fibrinogen gamma (FGG), polymerize to form an insoluble fibrin matrix. Fibrin has a major function in hemostasis as one of the primary components of blood clots. In addition, functions during the early stages of wound repair to stabilize the lesion and guide cell migration during re-epithelialization. Was originally thought to be essential for platelet aggregation, based on in vitro studies using anticoagulated blood. However subsequent studies have shown that it is not absolutely required for thrombus formation in vivo. Enhances expression of SELP in activated platelets. Maternal fibrinogen is essential for successful pregnancy. Fibrin deposition is also associated with infection, where it protects against IFNG-mediated hemorrhage. May also facilitate the antibacterial immune response via both innate and T-cell mediated pathways.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P02675
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	GHRPLDKKREEAPSLRPAPPPISGGGYRARPAAATQKKVERKAPDAGGCL HADPDLGVLCPTGCQLQEALLQQRPIRNSVDELNNNVEAVSQTSSSSSFQYM YLLKDLWQKRQKQVKDNENVVNEYSSELEKHQLYIDETVNSNIPTNLRVLSIL ENLRSKIQKLESDVSAQMEYCRTPCTVSCNIPVVSGKECEEIIRKGGGETSEMYL IQPDSSVKPYRVYCDMNTENGGWTVIQNRQDGSVDFGRKWDPYKQGFGNVA TNTDGKNYCGLPGEYWLGNDKISQLTRMGPTELLIEMEDWKGDVKVKAHYGGF TVQNEANKYQISVNKYRGTAGNALMDGASQLMGENRTMTIHNGMFFSTYDRD NDGWLTSDPRKQCSKEDGGGWWYNRCHAANPNGRYYWGGQYTWDMAKH GTDDGVVWMNWKGSWYSMRKMSMKIRPFFPQQ
<b>Lead Time</b>	3-7 business days
<b>Source</b>	E.coli
<b>Gene Names</b>	FGB
<b>Protein Names</b>	Recommended name: Fibrinogen beta chain Cleaved into the following 2 chains: 1. Fibrinopeptide B 2. Fibrinogen beta chain
<b>Expression Region</b>	45-491aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at





disorders, including ischaemic heart disease (IHD), stroke and other thromboembolism. This increase in plasma fibrinogen levels may promote a prothrombotic or hypercoagulable state, and may in part explain the risk of stroke and thromboembolism in conditions such as atrial fibrillation.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.