

## Fibrinogen beta chain Protein, Human, Recombinant (His)

### General Information

Synonyms: Fibrinogen beta chain;FGB

Protein Construction: 45-491 aa

Species: Human

Expression Host: E. coli

Accession: P02675

Molecular Weight: 54.8 kDa (predicted)

AA Sequence: GHRPLDKKREEAPSLRPAPPPISGGGYRARPAAATQKKVERKAPDAGGCLHADPDLGVLCPTGCQLQEAL  
LQQERPIRNSVDELNNNVEAVSQTSSSSSFQYMYLLKDLWQKRQKQVKNENNVNEYSSELEKHQLYIDETV  
NSNIPTNLRVLRVLSILENLRSKIQLKLESDVSAQMEYCRTPCTVSCNIPVVSQKECEEIIRKGGGETSEMYLIQPDSSV  
KPYRVYCDMNTENGGWTVIQNRQDGSVDFGRKWDQPYKQGFQGNVATNTDGNKYCGLPGEYWLGNKISQL  
TRMGPTELLIEMEDWKGDKVKAHYGGFTVQNEANKYQISVNKYRGTAGNALMDGASQLMGENRTMTIHNG  
MFFSTYDRDNDGWLTS DPRKQCSKEDGGGWYWRCHAANPNGRYYWGGQYTWDMAKHGTDGDDGVVWM  
NWKGSWYSMRKMSMKIRPFFPQQ

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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.

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