# Recombinant Human FGB, His-tagged

**Cat. No.** FGB-74H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human FGB protein, fused to His-tag at N-terminus, was expressed in E.coli. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | FGB also known as fibrinogen beta chain isoform 1 found in humans and most other vertebrates with a similar system of blood coagulation. FGB is the beta component of fibrinogen, a blood-borne glycoprotein composed 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 afibrinogenemia, dysfibrinogenemia, hypodysfibrinogenemia and thrombotic tendency. |
| **Form** | Liquid, In 20mM Tris-HCl buffer(pH8.0) containing 10% glycerol |
| **Molecular Mass** | 40kDa (351aa) |
| **AA Sequence** | MGSSHHHHHH SSGLVPRGSH MGSDNENVVN EYSSELEKHQ LYIDETVNSN IPTNLRVLRS ILENLRSKIQ KLESDVSAQM EYCRTPCTVS CNIPVVSGKE CEEIIRKGGE TSEMYLIQPD SSVKPYRVYC DMNTENGGWT VIQNRQDGSV DFGRKWDPYK QGFGNVATNT DGKNYCGLPG EYWLGNDKIS QLTRMGPTEL |

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| | LIEMEDWKGD KVKAHYGGFT VQNEANKYQI SVNKYRGTAG NALMDGASQL MGENRTMTIH NGMFFSTYDR DNDGWLTSDP RKQCSKEDGG GWWYNRCHAA NPNGRYYWGG QYTWDMAKHG TDDGVVWMNW KGSWYSMRKM SMKIRPFFPQ Q |
| **Purity** | >85 % by SDS - PAGE |
| **Storage** | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| **Concentration** | 1 mg/ml (determined by Bradford assay) |

## GENE INFORMATION

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| **Gene Name** | FGB fibrinogen beta chain [ Homo sapiens ] |
| **Official Symbol** | FGB |
| **Synonyms** | FGB; fibrinogen beta chain; fibrinogen, B beta polypeptide; MGC104327; MGC120405; |
| **Gene ID** | 2244 |
| **mRNA Refseq** | NM_001184741 |
| **Protein Refseq** | NP_001171670 |
| **MIM** | 134830 |
| **UniProt ID** | P02675 |

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| **Chromosome Location** | 4q28 |
| **Pathway** | Blood Clotting Cascade, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; GRB2:SOS provides linkage to MAPK signaling for Intergrins, organism-specific biosystem; |
| **Function** | chaperone binding; eukaryotic cell surface binding; protein binding, bridging; receptor binding; |

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