

Recombinant Human FGB, His-tagged

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

SPECIFICATION

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 EYWLGNNDKIS QLTRMGPTL

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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

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 Integrins, organism-specific biosystem;
Function	chaperone binding; eukaryotic cell surface binding; protein binding, bridging; receptor binding;

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