

# Recombinant human FGB protein

Catalog Number: ATGP3094

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

164-491aa

### UniProt No.

P02675

### NCBI Accession No.

NP\_005132

### Alternative Names

Fibrinogen beta chain isoform 1, HEL-S-78p

## PRODUCT SPECIFICATION

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### Molecular Weight

40kDa (351aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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afibrinogenemia, dysfibrinogenemia, hypodysfibrinogenemia and thrombotic tendency. Recombinant human FGB protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

## Amino acid Sequence

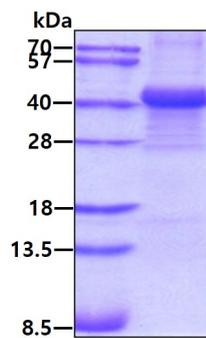
<MGSSHHHHHH SSGLVPRGSH MGS>DNENVVN EYSSELEKHQ LYIDETVNSN IPTNLRVLR ILENLRSKIQ  
KLESDVSAQM EYCRTPCTVS CNIPVVSQKE CEEIIRKGG E TSEMYLIQPD SSVKPYRVYC DMNTENGGWT VIQNRQDGSV  
DFGRKWDQPYK QGFGNVATNT DGKNYCGLPG EYWLGNKIS QLTRMGPTL LIEMEDWKGD KVKAHYGGFT VQNEANKYQI  
SVNKYRGTAG NALMDGASQL MGENRTMTIH NGMFFSTYDR DNDGWLTSDP RKQCSKEDGG GWWYNRCHAA  
NPNGRYYWGG QYTWDMAKHG TDDGVVWMNW KGSWYSMRKM SMKIRPFFPQ Q

## General References

Doolittle R.F., et al. (1984) *Annu. Rev. Biochem.* 53:195-229  
Spraggon G., et al. (1997) *Nature* 389:455-462

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.