

Fibrinogen Gamma (FGg) Active Protein | FGg active protein

Active Fibrinogen Gamma (FGg)

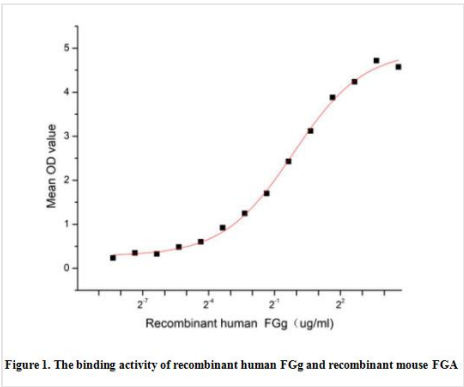
CATALOG # AAA161889	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Fibrinogen Gamma (FGg); Active Fibrinogen Gamma (FGg); Fibrinogen Gamma; FG-G4; FGg active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Lys166~Asn 416
Applicable Applications for FGg active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6
Research Area	Hematology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

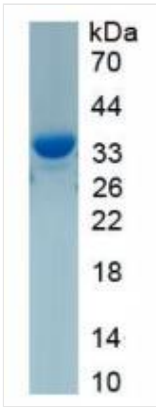


Bioactivity

Fibrinogen Gamma (FGg) is a component of fibrinogen, a blood-borne glycoprotein comprised 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. FGg can be polymerized with fibrinogen (FGA) and fibrinogen (FGB) to form an insoluble fibrin matrix, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FGg and recombinant mouse FGA. Briefly, FGg was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FGA-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-FGg pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human FGg and recombinant mouse FGA was shown in Figure 1, the EC50 for this effect is 0.9 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for FGg active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	70906437
NCBI GeneID	2266
NCBI Accession #	NP_000500.2
NCBI GenBank Nucleotide #	NM_000509.5
UniProt Accession #	P02679; P04469; P04470; Q53Y18; Q96A14; Q96KJ3; Q9UC62; Q9UC63; Q9UCF3; A8K057
Molecular Weight	49,497 Da
NCBI Official Full Name	fibrinogen gamma chain isoform gamma-A
NCBI Official Synonym Full Names	fibrinogen gamma chain
NCBI Official Symbol	FGG
NCBI Protein Information	fibrinogen gamma chain
UniProt Protein Name	Fibrinogen gamma chain
UniProt Gene Name	FGG
UniProt Entry Name	FIBG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/fibrinogen-gamma-fgg/161889>