FGG Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	FGG, Blocking Peptide
Full Product Name	FGG Blocking Peptide
Product Gene Name	FGG blocking peptide
Product Synonym Names	FGG; FIBG_HUMAN; Fibrinogen gamma chain; Fibrinogen gamma polypeptide; fibrinogen gamma-b chain
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	FGG peptide (MBS9626781) is used for blocking the activity of FGG antibody (MBS9608069)
Molecular Weight	49,497 Da
OMIM	134850
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for FGG blocking peptide	Blocking/Control
Related Product Information for FGG blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of FGG blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FGG purchase	MBS9626781 is a blocking peptide targeting FGG.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGG. It may not necessarily be applicable to this product.

NCBI GI #	70906437
NCBI GeneID	2266
NCBI Accession #	NP_000500.2
UniProt Primary Accession #	P02679
UniProt Secondary Accession #	P04469; P04470; Q53Y18; Q96A14; Q96KJ3; Q9UC62; Q9UC63; Q9UCF3; A8K057
UniProt Related Accession #	P02679

GenBank Nucleotide #	NM_000509.5
NCBI Official Full Name	fibrinogen gamma chain isoform gamma-A
NCBI Official Synonym Full Names	fibrinogen gamma chain
NCBI Official Symbol	FGG
UniProt Protein Name	Fibrinogen gamma chain
Protein Family	Fibrinogen
UniProt Gene Name	FGG
UniProt Entry Name	FIBG_HUMAN
NCBI Protein Information	fibrinogen gamma chain
UniProt Comments for FGG	FGG: Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation. Defects in FGG are a cause of congenital afibrinogenemia (CAFBN). This rare autosomal recessive disorder is characterized by bleeding that varies from mild to severe and by complete absence or extremely low levels of plasma and platelet fibrinogen. Patients with congenital fibrinogen abnormalities can manifest different clinical pictures. Some cases are clinically silent, some show a tendency toward bleeding and some show a predisposition for thrombosis with or without bleeding. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q28 Cellular Component: cell surface; external side of plasma membrane; extracellular region; extracellular space; fibrinogen complex; plasma membrane Molecular Function: cell adhesion molecule binding; protein binding; receptor binding; structural molecule activity Biological Process: blood coagulation; cell-matrix adhesion; cellular protein complex assembly; extracellular matrix organization and biogenesis; fibrinolysis; plasminogen activation; platelet degranulation; positive regulation of exocytosis; positive regulation of heterotypic cell-cell adhesion; positive regulation of protein secretion; positive regulation of vasoconstriction; protein polymerization; protein secretion; response to calcium ion Disease: Afibrinogenemia, Congenital; Dysfibrinogenemia, Congenital
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