abcam

Product datasheet

Native Mouse Fibrinogen protein (Active) ab92791

2 References

Description

Product name	Native Mouse Fibrinogen protein (Active)
Biological activity	>80% Clottable in a thrombin based assay.
Purity	> 95 % SDS-PAGE. Prepared from fresh Mouse plasma using several chromatographic steps. Plasminogen depleted by lysine affinity chromatography.
Expression system	Native
Accession	E9PV24 Q8K0E8 Q8VCM7
Protein length	Full length protein
Animal free	No
Nature	Native

Amino Acid Sequence 1

Sequence

MLSLRVTCLI LSVASTVWTT DTEDKGEFLS
EGGGVRGPRV VERHQSQCKD SDWPFCSDDD
WNHKCPSGCR MKGLIDEANQ DFTNRINKLK
NSLFDFQRNN KDSNSLTRNI MEYLRGDFAN
ANNFDNTYGQ VSEDLRRRIE ILRRKVIEKA QQIQALQSNV
RAQLIDMKRL EVDIDIKIRS CKGSCSRAVN REINLQDYEG
HQKQLQQVIA KELLPTKDRQ YLPALKMSPV
PDLVPGSFKS QLQEAPPEWK ALTEMRQMRM
ELERPGKDGG SRGDSPGDSR GDSRGDFATR
GPGSKAENPT NPGPGGSGYW RPGNSGSGSD
GNRNPGTTGS DGTGDWGTGS PRPGSDSGNF
RPANPNWGVF SEFGDSSSPA TRKEYHTGKA
VTSKGDKELL IGKEKVTSSG TSTTHRSCSK TITKTVTGPD
GRREVVKEVI TSDDGSDCGD ATELDISHSF
SGSLDELSER HPDLSGFFDN HFGLISPNFK
EFGSKTHSDS DILTNIEDPS SHVPEFSSSS
KTSTVKKQVT KTYKMADEAG SEAHREGETR
NTKRGRARAR PTRDCDDVLQ TQTSGAQNGI
FSIKPPGSSK VFSVYCDQET SLGGWLLIQQ
RMDGSLNFNR TWQDYKRGFG SLNDKGEGEF
WLGNDYLHLL TLRGSVLRVE LEDWAGKEAY

	AEYHFRVGSE AEGYALQVSS YRGTAGDALV QGSVEEGTEY TSHSNMQFST FDRDADQWEE NCAEVYGGGW WYNSCQAANL NGIYYPGGTY DPRNNSPYEI ENGVVWVPFR GADYSLRAVR MKIRPLVGQ
Amino acids	1 to 789
Additional sequence information	Alpha chain Gene ID: 14161
Amino Acid Sequence 2	
Sequence	MRHLWLLLLL CVFSVQTQAA DDDYDEPTDS LDARGHRPVD RRKEEPPSLR PAPPPISGGG YRARPAKATA NQKKVERRPP DAGGCLHADT DMGVLCPTGC TLQQTLLNQE RPIKSSIAEL NNNIQSVSDT SSVTFQYLTL LKDMWKKKQA QVKENENVIN EYSSILEDQR LYIDETVNDN IPLNLRVLRS ILEDLRSKIQ KLESDISAQM EYCRTPCTVS CNIPVVSGKE CEEIIRKGGE TSEMYLIQPD TSIKPYRVYC DMKTENGGWT VIQNRQDGSV DFGRKWDPYK KGFGNIATNE DAKKYCGLPG EYWLGNDKIS QLTRMGPTEL LIEMEDWKGD KVKAHYGGFT VQNEASKYQV SVNKYKGTAG NALMDGASQL VGENRTMTIH NGMFFSTYDR DNDGWVTTDP RKQCSKEDGG GWWYNRCHAA NPNGRYYWGG LYSWDMSKHG TDDGVVWMNW KGSWYSMRRM SMKIRPFFPQ Q
Amino acids	1 to 481
Additional sequence information	Gene ID: 110135 Beta chain.
Amino Acid Sequence 3	
Sequence	MSWSLQPPSF LLCCLLLLFS PTGLAYVATR DNCCILDERF GSFCPTTCGI ADFLSSYQTD VDNDLRTLED ILFRAENRTT EAKELIKAIQ VYYNPDQPPK PGMIDSATQK SKKMVEEIVK YEALLLTHET SIRYLQEIYN SNNQKITNLK QKVAQLEAQC QEPCKDSVQI HDTTGKDCQE IANKGAKESG LYFIRPLKAK QQFLVYCEID GSGNGWTVLQ KRIDGSLDFK KNWIQYKEGF GHLSPTGTTE FWLGNEKIHL ISMQSTIPYA LRIQLKDWNG RTSTADYAMF RVGPESDKYR LTYAYFIGGD AGDAFDGYDF GDDPSDKFFT SHNGMQFSTW DNDNDKFEGN CAEQDGSGWW MNKCHAGHLN GVYHQGGTYS KSSTTNGFDD GIIWATWKSR WYSMKETTMK IIPFNRLSIG EGQQHHMGGS KQAGDV
Amino acids	1 to 436
Additional sequence information	Gene ID: 99571 Gamma chain.
Description	Native Fibrinogen protein (Active)

Specifications

Our **Abpromise guarantee** covers the use of **ab92791** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	Extinction coefficient: 1.51 Host species: Mouse MW: 340.00 kDa

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.40 Constituent: 0.59% Sodium citrate This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation.
Tissue specificity	Plasma.
Involvement in disease	Defects in FGA are a cause of congenital afibrinogenemia (CAFBN) [MIM:202400]. This is a rare autosomal recessive disorder characterized by bleeding that varies from mild to severe and by complete absence or extremely low levels of plasma and platelet fibrinogen. Note=The majority of cases of afibrinogenemia are due to truncating mutations. Variations in position Arg-35 (the site of cleavage of fibrinopeptide a by thrombin) leads to alpha-dysfibrinogenemias. Defects in FGA are a cause of amyloidosis type 8 (AMYL8) [MIM:105200]; also known as systemic non-neuropathic amyloidosis or Ostertag-type amyloidosis. AMYL8 is a hereditary generalized amyloidosis due to deposition of apolipoprotein A1, fibrinogen and lysozyme amyloids. Viscera are particularly affected. There is no involvement of the nervous system. Clinical features include renal amyloidosis resulting in nephrotic syndrome, arterial hypertension, hepatosplenomegaly, cholestasis, petechial skin rash.
Sequence similarities	Contains 1 fibrinogen C-terminal domain.
Domain	A long coiled coil structure formed by 3 polypeptide chains connects the central nodule to the C-terminal domains (distal nodules). The long C-terminal ends of the alpha chains fold back, contributing a fourth strand to the coiled coil structure.
Post-translational modifications	The alpha chain is not glycosylated. Forms F13A-mediated cross-links between a glutamine and the epsilon-amino group of a lysine residue, forming fibronectin-fibrinogen heteropolymers. About one-third of the alpha chains in the molecules in blood were found to be phosphorylated. Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot. The soft clot is converted into the hard clot by factor XIIIA which catalyzes the epsilon-(gamma-glutamyl)lysine cross-linking between gamma chains (stronger) and between alpha chains (weaker) of different monomers. Phosphorylation sites are present in the extracellular medium.
Cellular localization	Secreted.

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