

## Product datasheet

## Native Mouse Fibrinogen protein (Active) ab92791

2 References**描述****产品名称**

Native小鼠Fibrinogen蛋白(Active)

**生物活性**

&gt;80% Clottable in a thrombin based assay.

**纯度**

&gt; 95 % SDS-PAGE.

Prepared from fresh Mouse plasma using several chromatographic steps. Plasminogen depleted by lysine affinity chromatography.

**表达系统**

Native

**Accession**E9PV24Q8K0E8Q8VCM7**蛋白长度**

Full length protein

**无动物成分**

No

**性质**

Native

**氨基酸序列 1****序列**

MLSLRVTCI LSVASTVWTT DTEDKGFLS  
EGGGVRGPRV VERHQSQCKD SDWPFCSDDD  
WNHKCPSGCR MKGLIDEANQ DFTNRINKLK  
NSLFDFQRNN KDSNSLTRNI MEYLRGDFAN  
ANNFDNTYQQ VSEDLRRRIE ILRRKVIEKA  
QQIQALQSNV RAQLIDMKRL EV DIDIKIRS  
CKGSCSRAVN REINLQDYEG HQKQLQQVIA  
KELLPTKDRQ YLPALKMSPV PDLVPGSFKS  
QLQEAPPEWK ALTEMRQMRM ELERPGKDGG  
SRGDSPGDSR GDSRGDFATR GPGSKAENPT  
NPGPGGSGYW RPGNSGSGSD GNRNPGTTGS  
DGTGDWGTGS PRPGSDSGNF RPANPNWGVF  
SEFGDSSSPA TRKEYHTGKA VTSKGDKELL  
IGKEKVTSSG TSTTHRSCSK TITKTVTGPD  
GRREVVKVEVI TSDDGSDCGD ATELDISHSF  
SGSLDELSER HPDLSGFFDN HFGLISPNNFK  
EFGSKTHSDS DILTNIEDPS SHVPEFSSSS  
KTSTVKKQVT KTYKMADEAG SEAHREGETR  
NTKRGRARAR PTRDCDDVLQ TQTSGAQNGI  
FSIKPPGSSK VFSVYCDQET SLGGWLLIQQ  
RMDGSLNFNR TWQDYKRGFG SLNDKGEGEF

WLGNNDYLHLL TLRGSVLRVE LEDWAGKEAY  
AEYHFRVGSE AEGYALQVSS YRGTAGDALV  
QGSVEEGTEY TSHSNMQFST FDRDADQWEE  
NCAEVYGGGW WYNSCQAANL NGIYYPGGTY  
DPRNNSPYEI ENGVVVVPFR GADYSLRAVR MKIRPLVQ

**氨基酸**

1 to 789

**额外的序列信息**

Alpha chain Gene ID: 14161

**氨基酸序列 2**

**序列**

MRHLWLLLLL CVFSVQTQAA DDDYDEPTDS  
LDARGHRPVD RRKEEPPSLR PAPPPISGGG  
YRARPAKATA NQKKVERRPP DAGGCLHADT  
DMGVLCPTGC TLQQTLNNQE RPIKSSIAEL  
NNNIQSVDTS SSVTFQYLT LKDMWKKKQA  
QVKENENVIN EYSSILEDQR LYIDETVNDN  
IPLNLRLVRLS ILEDLRSKIQ KLESDISAQM  
EYCRTPCTVS CNIPVVSGKE CEEIIRKGGE  
TSEMYLIQPD TSIKPYRVYC DMKTENGWWT  
VIQNRQDGSV DFGRKWDPYK KGFGNIATNE  
DAKKYCGLPY EYWLGNDKIS QLTRMGPTEL  
LIEDMEDWKGD KVKAHYGGFT VQNEASKYQV  
SVNKYKGTAG NALMDGASQL VGENRTMTIH  
NGMFFSTYDR DNDGWVTTDP RKQCSKEDGG  
GWYWNRCHAA NPNGRYYWGG LYSWDMSKHG  
TDDGVVWMNW KGSWYSMRRM SMKIRPFFPQ Q

**氨基酸**

1 to 481

**额外的序列信息**

Gene ID: 110135 Beta chain.

**氨基酸序列 3**

**序列**

MSWSLQPPSF LLCCLLLLFS PTGLAYVATR  
DNCCILDERF GSFCPTTCGI ADFLSSYQTD  
VDNDLRTLED ILFRAENRTT EAELIKAIQ  
VYYNPDPQPK PGIMIDSATQK SKKMVEEIVK  
YEALLLTHET SIRYLQEIYN SNNQKITNLK  
QKVAQLEAACQ QEPCKDSVQI HDTTGKDCQE  
IANKGAESG LYFIRPLKAK QQFLVYCEID  
GSGNGWTVLQ KRIGSLDFK KNWIQYKEGF  
GHLSPTGTTE FWLGNEKIHL ISMQSTIPYA  
LRIQLKDWNNG RTSTADYAMF RVGPESDKYR  
LTYAYFIGGD AGDAFDGYDF GDDPSDKFFT  
SHNGMFSTW DNDNDKFEGN CAEQDGSGWW  
MNKCHAGHLN GVYHQGGTYS KSSTTNGFDD  
GIIWATWKS R WYSMKETTMK IIPFNRLSIG  
EGQQHHMGGS KQAGDV

**氨基酸**

1 to 436

**额外的序列信息**

Gene ID: 99571 Gamma chain.

**描述**

Native Fibrinogen蛋白(Active)

**技术指标**

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.

**应用**

SDS-PAGE

Functional Studies

**形式**

Liquid

**补充说明**

Extinction coefficient: 1.51

Host species: Mouse

MW: 340.00 kDa

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**制备和贮存**

**稳定性和存储**

Shipped on dry ice. Upon delivery aliquot and store at -80°C. 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.

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**常规信息**

**功能**

Fibrinogen has a double function: yielding monomers that polymerize into fibrin and acting as a cofactor in platelet aggregation.

**组织特异性**

Plasma.

**疾病相关**

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.

**序列相似性**

Contains 1 fibrinogen C-terminal domain.

**结构域**

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.

**翻译后修饰**

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.

## 细胞定位

Secreted.

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