

Coagulation factor XIII A/F13A Protein, Human (HEK293, His)

Cat. No.:	HY-P70226
Synonyms:	rHuCoagulation factor XIII A chain/F13A, His; Coagulation Factor XIII A Chain; Coagulation Factor XIIIa; Protein-Glutamine Gamma-Glutamyltransferase A Chain; Transglutaminase A Chain; F13A1; F13A
Species:	Human
Source:	HEK293
Accession:	AAH27963.1 (G39-M732)
Gene ID:	2162
Molecular Weight:	80-90 kDa

PROPERTIES

AA Sequence

G V N L Q E F L N V	T S V H L F K E R W	D T N K V D H H T D	K Y E N N K L I V R
R G Q S F Y V Q I D	F S R P Y D P R R D	L F R V E Y V I G R	Y P Q E N K G T Y I
P V P I V S E L Q S	G K W G A K I V M R	E D R S V R L S I Q	S S P K C I V G K F
R M Y V A V W T P Y	G V L R T S R N P E	T D T Y I L F N P W	C E D D A V Y L D N
E K E R E E Y V L N	D I G V I F Y G E V	N D I K T R S W S Y	G Q F E D G I L D T
C L Y V M D R A Q M	D L S G R G N P I K	V S R V G S A M V N	A K D D E G V L V G
S W D N I Y A Y G V	P P S A W T G S V D	I L L E Y R S S E N	P V R Y G Q C W V F
A G V F N T F L R C	L G I P A R I V T N	Y F S A H D N D A N	L Q M D I F L E E D
G N V N S K L T K D	S V W N Y H C W N E	A W M T R P D L P V	G F G G W Q A V D S
T P Q E N S D G M Y	R C G P A S V Q A I	K H G H V C F Q F D	A P F V F A E V N S
D L I Y I T A K K D	G T H V V E N V D A	T H I G K L I V T K	Q I G G D G M M D I
T D T Y K F Q E G Q	E E E R L A L E T A	L M Y G A K K P L N	T E G V M K S R S N
V D M D F E V E N A	V L G K D F K L S I	T F R N N S H N R Y	T I T A Y L S A N I
T F Y T G V P K A E	F K K E T F D V T L	E P L S F K K E A V	L I Q A G E Y M G Q
L L E Q A S L H F F	V T A R I N E T R D	V L A K Q K S T V L	T I P E I I I K V R
G T Q V V G S D M T	V I V E F T N P L K	E T L R N V W V H L	D G P G V T R P M K
K M F R E I R P N S	T V Q W E E V C R P	W V S G H R K L I A	S M S S D S L R H V
Y G E L D V Q I Q R	R P S M		

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Solution.

Formulation Supplied as a 0.2 µm filtered solution of 50 mM NaCl, 5% Sucrose, 0.3% Histidine , pH 8.0.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution N/A

Storage & Stability Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for

extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice.

DESCRIPTION

Background

Coagulation factor XIII is critical in the coagulation cascade chain, and enhances the stability of blood clot formation. Factor XIII is involved in trauma, wound healing, tissue repair, pregnancy, and even bone metabolism. Factor XIII can bind to $\alpha v \beta 3$ integrin, inducing VEGFR-2 activation, promoting endothelial cell proliferation and survival, and angiogenesis^[1].

Factor XIII, a transglutaminase, is a complex of two A (gene F13A1) chains with catalytic activity and two B chains (gene F13B)^[2]. Factor XIII A chain can be activated by thrombin and Ca^{2+} . Factor XIII A usually exists in the cytoplasm of certain cells, particularly platelets and monocytes/macrophages^[3].

Factor XIII A chain plays a role in wound healing, inflammatory and malignant diseases^[4].

Caution: Product has not been fully validated for medical applications. For research use only.

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