

Coagulation factor XIII B/F13B Protein, Human (HEK293, His)

Cat. No.:	HY-P74238
Synonyms:	Coagulation factor XIII B chain; F13B
Species:	Human
Source:	HEK293
Accession:	P05160 (E21-T661)
Gene ID:	2165
Molecular Weight:	Approximately 80-90 kDa due to the glycosylation.

PROPERTIES

AA Sequence

E E K P C G F P H V	E N G R I A Q Y Y Y	T F K S F Y F P M S	I D K K L S F F C L
A G Y T T E S G R Q	E E Q T T C T T E G	W S P E P R C F K K	C T K P D L S N G Y
I S D V K L L Y K I	Q E N M R Y G C A S	G Y K T T G G K D E	E V V Q C L S D G W
S S Q P T C R K E H	E T C L A P E L Y N	G N Y S T T Q K T F	K V K D K V Q Y E C
A T G Y Y T A G G K	K T E E V E C L T Y	G W S L T P K C T K	L K C S S L R L I E
N G Y F H P V K Q T	Y E E G D V V Q F F	C H E N Y Y L S G S	D L I Q C Y N F G W
Y P E S P V C E G R	R N R C P P P P L P	I N S K I Q T H S T	T Y R H G E I V H I
E C E L N F E I H G	S A E I R C E D G K	W T E P P K C I E G	Q E K V A C E E P P
F I E N G A A N L H	S K I Y Y N G D K V	T Y A C K S G Y L L	H G S N E I T C N R
G K W T L P P E C V	E N N E N C K H P P	V V M N G A V A D G	I L A S Y A T G S S
V E Y R C N E Y Y L	L R G S K I S R C E	Q G K W S S P P V C	L E P C T V N V D Y
M N R N N I E M K W	K Y E G K V L H G D	L I D F V C K Q G Y	D L S P L T P L S E
L S V Q C N R G E V	K Y P L C T R K E S	K G M C T S P P L I	K H G V I I S S T V
D T Y E N G S S V E	Y R C F D H H F L E	G S R E A Y C L D G	M W T T P P L C L E
P C T L S F T E M E	K N N L L L K W D F	D N R P H I L H G E	Y I E F I C R G D T
Y P A E L Y I T G S	I L R M Q C D R G Q	L K Y P R C I P R Q	S T L S Y Q E P L R
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Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

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

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The Coagulation factor XIII B/F13B protein, as the B chain of factor XIII, lacks catalytic activity but is believed to play a crucial role in stabilizing the A subunits and regulating the rate of transglutaminase formation initiated by thrombin. The protein functions as a tetramer composed of two A chains (F13A1) and two B chains (F13B), highlighting its structural significance in the formation and stability of the factor XIII complex. This intricate arrangement underscores the regulatory role of Coagulation factor XIII B/F13B in the enzymatic processes involved in blood coagulation, particularly in the context of transglutaminase activation by thrombin.

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

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