

Coagulation Factor XII/F12 Protein, Pig (His)

Cat. No.:	HY-P72189
Synonyms:	F12 Coagulation factor XII; EC 3.4.21.38; Hageman factor; HAF; Coagulation factor XIIa heavy chain; Coagulation factor XIIa light chain
Species:	Pig
Source:	E. coli
Accession:	O97507 (I20-R371)
Gene ID:	397474
Molecular Weight:	Approximately 43.8 kDa

PROPERTIES

AA Sequence

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

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 solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.

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.

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

Coagulation Factor XII, also known as F12, is a serum glycoprotein with multifaceted roles in the initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. Factor XII participates in the intricate cascade of

events by cleaving prekallikrein to form kallikrein. Subsequently, factor XII undergoes cleavage itself, initially to alpha-factor XIIa and then to beta-factor XIIa through trypsin activity. Notably, alpha-factor XIIa is implicated in the activation of Factor XI to Factor XIa, contributing to the propagation of the coagulation cascade.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA