

## Coagulation factor XII Protein, Pig, Recombinant (His)

### General Information

Synonyms:	Coagulation factor XII;Hageman factor (HAF);F12
Protein Construction:	20-371 aa
Species:	Sus scrofa (Pig)
Expression Host:	E. coli
Accession:	O97507
Molecular Weight:	43.8 kDa (predicted)
AA Sequence:	IPPWKDPRKHKVMASEHTVVLTVTGEPCHFPPFYRQLYYKCIQRGQRGPRPWCATTPNFEKDQRWAYCLE PMKVKDHCNKGNPCQKGGTCVNMPNGPHCICPDHFTGKHCQKEKCFEPQFLQFFQENEIWHRFEPAGVSK CQCKGPKAQCKPVASQVCSTNPCLNNGSCLQTEGHRLCRCPTGYAGRLCDVDLKERCYSDRGLSYRGMAQT TLSGAPCQPWASEATYWNMTAEQALNWGLGDHAFCRNPDNDTRPWC FVWRGDQLSWQY CRLARCQAPI GEAPPILTPTQSPSEHQDSPLLSREPQPTTQTPSQNLTSAWCAPPEQRGPLPSAGLVGCGQRLRKRLSSLNR

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Factor XII is a serum glycoprotein that participates in the initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. Prekallikrein is cleaved by factor XII to form kallikrein, which then cleaves factor XII first to alpha-factor XIIa and then trypsin cleaves it to beta-factor XIIa. Alpha-factor XIIa activates

factor XI to factor XIa.

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