

## Recombinant Pig F12 Protein (20-371 aa), His-tagged

Cat. No. F12-2005P Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Pig F12 Protein (20-371 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cardiovascular. Protein Description: Partial.
<b>Species</b>	Pig
<b>Source</b>	E.coli
<b>ProteinLength</b>	20-371 aa
<b>Description</b>	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 (By similarity).
<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	43.8 kDa
<b>AA Sequence</b>	<pre> IPPWKDPRKHKVMASEHTVVLTVTGEPCHFPFQYYRQLYYKCIQRGQRGPRPWCA TTPNFEKDQRWAYCLEPMKVKDHCNKGNPCQKGGTCVNMPNGPHCICPDHFTGK HCQKEKCFEPQFLQFFQENEIWHRFEPAGVSKCQCKGPKAQCKPVASQVCSTNPC LNGGSLQTEGHRLCRCPTGYAGRLCDVDLKERCYSDRGLSYRGMATTLGAPC QPWASEATYWNMTAEQALNWGLGDHAFCRNPNDTRPWCFVWRGDQLSWQYC </pre>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RLARCQAPIGEAPPILTPTQSPSEHQDSPLLSREPQPTTQTSPQNLTSAWCAPPEQR  
GPLPSAGLVGCGQRLRKRLSSLNR

**Purity** > 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA with reconstitution instruction is sent along with the products.

## GENE INFORMATION

**Gene Name** F12 coagulation factor XII (Hageman factor) [ *Sus scrofa* ]

**Official Symbol** F12

**Synonyms** F12; coagulation factor XII; HAF; factor XII; hageman factor; FXII;

**Gene ID** 397474

**mRNA Refseq** NM\_214242

**Protein Refseq** NP\_999407

**UniProt ID** O97507

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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