

# Active Native Human Coagulation Factor XII (Hageman factor)

**Cat. No.** F12-5397H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | HumanFactor beta-XIIa is a single chain polypeptide activated from homogeneous Human F12 by an autoactivation process with dextran sulfate.                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Human Plasma                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Human F12is generated in vivo by kallikrein cleavage of Factor alpha-XIIa and contains the catalytic light chain and the C-terminal peptide of the heavy chain of Factor alpha-XIIa. Human Factor beta-XIIa is activated from homogeneous Human FactorXII by an autoactivation process with Dextran Sulfate followed byrepurification to isolate Factor alpha-XIIa and Factor beta-XIIa. Completeactivation is observed on SDSPAGE. |
| <b>Form</b>             | Frozen liquidcontaining 4 mM Sodium acetate Buffer + 0.15 M NaCl, pH 5.3.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | Determined byClotting Assay.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 30 kDa                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | < 0.1="" ng/μg="" ofprotein.="">                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | ≥95% by SDS-PAGEanalysis.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Store at-80°C. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                 |

 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

**Concentration** 2.0 mg/ml

## GENE INFORMATION

**Gene Name** F12 coagulation factor XII (Hageman factor) [ Homo sapiens ]

**Official Symbol** F12

**Synonyms** F12; coagulation factor XII (Hageman factor); coagulation factor XII; Hageman factor; beta-factor XIIa part 1; beta-factor XIIa part 2; coagulation factor XIIa heavy chain; coagulation factor XIIa light chain; HAF; HAE3; HAEX;

**Gene ID** 2161

**mRNA Refseq** NM\_000505

**Protein Refseq** NP\_000496

**MIM** 610619

**UniProt ID** P00748

**Chromosome Location** 5q33-qter

**Pathway** Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Hemostasis, organism-specific biosystem; Intrinsic Pathway, organism-specific biosystem;

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**Function**

binding; misfolded protein binding; peptidase activity; protein binding; serine-type endopeptidase activity;

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