

Active Native Human Coagulation Factor XII (Hageman factor)

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

SPECIFICATION

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

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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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