

Recombinant Human Factor XII

Cat. No. F12 -82H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human Factor XII is a single chain glycoprotein produced in insect cell culture. Factor XII is converted, principally from the action of kallikrein, into an active serine protease (Factor alpha-XIIa) that functions in the in vivo initiation of blood coagulation, fibrinolysis, and kinin formation. The protein purity is determined by SDS-PAGE and activity is determined via complementation in an APTT clotting assay using Factor XII immuno-deficient human plasma. Specific activity of this recombinant product is typically lower than that of plasma derived material. Custom mutants of Factor XII are also available, please contact us for more details.

Species Human

Source Insect Cells

Form Frozen liquid

Molecular Mass 80,000 (Human Plasma Derived)

Purity >95% by SDS-PAGE analysis

Usage For in vitro laboratory use only

Notes

Optimal experimental conditions and working dilutions must be determined by the end user. Sample concentration and volume are for example purposes only and do not necessarily represent the product that will be received. Please contact us for a current lot-specific product datasheet.

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Storage	-70°C
Concentration	0.25 mg/ml
Storage Buffer	4 mM Sodium Acetate; 0.15 M NaCl; pH 5.3
Shipping	Dry ice

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

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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;

Function

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

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