

Product Data Sheet



Product number **T007**
Revision number **RN2.3**

Product Name Coagulation factor XIII, purified from human plasma

Synonym Fibrin stabilizing factor

Unit Size 50 E* / 250 E* (Minimum content)
Approximates 1,000 µg / 5,000 µg Factor XIII

Source Human plasma

Solubility Aqueous buffers

Quantity 50 E* 250 E*

Dry Substance 17 – 34 mg 68 – 135 mg

Total protein 6 – 16 mg 24 – 64 mg

Contains Human Serum Albumin (HSA), Glucose and Sodium chloride

*1 E is defined as the Factor XIII activity of 1 mL citrated plasma from healthy human donors.

Molecular Weight 340 kDa

Description Human Factor XIII is a tetramer (A₂B₂) composed of two pairs of chains held together by non covalent bonds. After activation of the zymogen by Thrombin and Ca²⁺ to its active form (A^{*}₂, Factor XIIIa), Factor XIIIa catalyzes the formation of covalent bridges (ε-(γ-glutamyl) lysine bonds) between fibrin units to increase the elasticity of the clot network. The resulting cross-linked fibrin is insoluble and resistant to lysis.

Appearance White solid

Reconstitution Coagulation factor XIII should be reconstituted in water in order to prepare a stock solution of 62.5 E/mL as follows:

Reconstitute 50 E in 0.8 mL water

Reconstitute 250 E in 4 mL water

The stock solution can be stored in working aliquots at -20°C for up to two weeks. Dilution of stock solution can be prepared in a buffer of choice.

Activation Ca²⁺, Thrombin

Storage Store at 2 – 8 °C. DO NOT FREEZE!

Delivery is possible at ambient temperature

Stock solutions are reported to be stable for several hours.

Reference(s) Iannaccone et al., Int. J. Biochem. Mol. Biol. 2013, 4:102-7

Related products T027 Human blood coagulation Factor XIII, recombinant
F001 FXIII-Assay Kit
A101 FXIII-Assay Substance, Abz-NE(CAD-DNP)EQVSPLLLK-OH
T087 Tridegin
K003 K9-DON

Release date 05 November 2015

NOTE INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.