Product Data Sheet

Product number **T197**
Revision number RN2.1

Product Name	Coagulation factor XIII, recombinant human (FXIII-A_2)
Synonym	Recombinant fibrin stabilizing factor, protein-glutamine-γ-glutamyltransferase
Source	Recombinantly produced in insect cells
Unit Size	**100 E***, approximates 1,000 µg FXIII-A_2 **250 E***, approximates 2,500 µg FXIII-A_2 *1 E is defined as the Factor XIII activity of 1 mL citrated plasma from healthy human donors.
Reagents	Contains TRIS buffered Human Serum Albumin (HSA), Glucose and Sodium chloride
Description	Recombinant human Factor XIII is a homodimer (A_2) composed by two chains held together by non-covalent bonds. It is N-terminally fused to a hexahistidine-tag. After activation of the zymogen by Thrombin and Ca^{2+} 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.
Activation	Thrombin, Ca^{2+}
Molecular Weight	84 kDa (monomer); 168 kDa (homodimer)
Appearance	White solid
Application	Research and development purposes
Reconstitution	Add the volume of water specified in the certificate of analysis under *Aliquotation* to the vial of lyophilized powder. Rotate vial gently until solid dissolves. For immediate use.
Storage	Store lyophilized product at –80 °C. If storage at –80°C is not possible, storage at –20 °C is recommended. Use reconstituted product immediately.

Related products

T027	Human blood coagulation Factor XIII A-subunit, recombinant
T050	Human blood coatulation Factor XIII B-subunit
F001	FXIII-Assay Kit
A101	FXIII-Assay Substance, Abz-NE(CAD-DNP)EQVSPLTLLK-OH
T087	Tridegin
K003	K9-DON
A016	Polyclonal antibody to human factor XIII A-subunit
A076	DD-XLink-mab

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