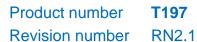
Product Data Sheet





Product Name Coagulation factor XIII, recombinant human (FXIII-A₂)

Synonym Recombinant fibrin stabilizing factor, protein-glutamine-y-glutamyltransferase

Source Recombinantly produced in insect cells

Unit Size 100 E*, approximates 1,000 μg FXIII-A₂

250 E*, approximates 2,500 µg FXIII-A2

*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 (A₂) 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, Ca²⁺

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

Release date 18 July 2024

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

DIAGNOSTIC APPLICATIONS.