

Product number **T197**  
 Revision number **RN2.0**

<b>Product Name</b>	Coagulation factor XIII, recombinant human (FXIII-A <sub>2</sub> )
<b>Synonym</b>	Recombinant fibrin stabilizing factor, protein-glutamine-γ-glutamyltransferase
<b>Source</b>	Recombinantly produced in insect cells
<b>Unit Size</b>	<b>100 E*</b> , approximates 1,000 µg FXIII-A <sub>2</sub> <b>250 E*</b> , approximates 2,500 µg FXIII-A <sub>2</sub> *1 E is defined as the Factor XIII activity of 1 mL citrated plasma from healthy human donors.
<b>Reagents</b>	Contains TRIS buffered Human Serum Albumin (HSA), Glucose and Sodium chloride
<b>Description</b>	Recombinant human Factor XIII is a homodimer (A <sub>2</sub> ) 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 <sup>2+</sup> to its active form (A* <sub>2</sub> , 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.
<b>Activation</b>	Thrombin, Ca <sup>2+</sup>
<b>Molecular Weight</b>	84 kDa (monomer); 168 kDa (homodimer)
<b>Appearance</b>	White solid
<b>Application</b>	Research and development purposes
<b>Reconstitution</b>	Add the volume of water specified in the certificate of analysis under <i>Aliquotation</i> to the vial of lyophilized powder. Rotate vial gently until solid dissolves. After reconstitution the solution should be stored frozen in working aliquots. For short term storage keep cooled on ice.
<b>Storage</b>	Store at –20 °C in working aliquots. Repeated freezing and thawing is not recommended.
<b>Related products</b>	T027 Human blood coagulation Factor XIII A-subunit, recombinant T050 Human blood coagulation Factor XIII B-subunit F001 FXIII-Assay Kit A101 FXIII-Assay Substance, Abz-NE(CAD-DNP)EQVSPLTLK-OH T087 Tridegin K003 K9-DON A016 Polyclonal antibody to human factor XIII A-subunit A076 DD-XLink-mab
<b>Release date</b>	30 December 2021
<b>NOTE</b>	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.