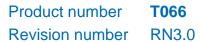
Product Data Sheet





Product Name Pig (Sus scrofa) blood coagulation Factor XIII-A₂ (sFXIII, A subunit)

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

Source Recombinantly produced in insect cells

Quantity 200 μg

Purity > 95% [by SDS-PAGE]

Molecular Weight 83 kDa (monomer); 166 kDa (homodimer)

Description Recombinant pig Factor XIII is a homodimer (a₂) composed of two chains held together by non

covalent bonds. 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.

Application sFXIII catalyzes acyl transfer reactions from glutamin residues in proteins or peptides to

primary amines, e. g. the formation of ε -(γ -glutamyl) lysine bonds between proteins by

transferring the acyl group of a peptide-bound glutamine residue to the primary amino group of

a peptide-bound lysine residue.

Appearance White lyophilized solid.

Storage Storage for several months is possible at \leq - 20°C.

Delivery is possible at ambient temperature

Reagents The recombinant pig Factor XIII is lyophilized from 20 mM Tris-HCl pH 7.5, 150 mM NaCl,

1 mM EDTA, 1 mM DTT. Sample contains maltodextrin.

Reconstitution Add the volume of H₂O the protein is lyophilized from (see Certificate of Analysis) to the vial of

lyophilized powder. Rotate vial gently until solid dissolves. After reconstitution the solution should be stored frozen in working aliquots. Keep cooled on ice for short term storage.

Related products A101 FXIII-Assay Substance, Abz-NE(CAD-DNP)EQVSPLTLLK-OH

F001 FXIII-Assay Kit

T027 Coagulation factor XIII, purified from human plasmaT007 Human blood coagulation Factor XIII, recombinant

T101 1,3,4,5-Tetramethyl-2[(2-oxo-propyl)thio] imidazolium chloride

A016 Polyclonal antibody to human blood coagulation factor XIII (A-subunit)

Reference(s) Heil et al., Thromb. Res. 2013, 131, e214–e22

Release date 23 December 2021

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

DIAGNOSTIC APPLICATIONS.