

Native Human Coagulation Factor XIII, A1 Polypeptide

Cat. No. F13A1-1881H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human F13A1 was expressed in Human plasma.
Species	Human
Source	Human Plasma
Description	F13A1 is a tetramer composed of two pairs of chains held together by noncovalent bonds. After activation of the zymogen via Thrombin to its active enzyme form, activated Factor XIIIa is responsible for catalyzing the formation of covalent bridges between fibrin units to increase the elasticity of the clot network. The resulting cross-linked fibrin is very insoluble and resistant to lysis.
Form	Frozen liquid containing 0.05 M Tris-HCl Buffer + 0.15 M NaCl + 0.001 M EDTA + 10 U/ml Aprotinin + 20% Glycerol, pH 7.5.
Molecular Weight	320 kDa
Purity	>95% by SDS-PAGE analysis
Endotoxin Level	<0.1 ng/ug of protein
Concentration	5.0 mg/ml
Storage	Store at -80°C. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.

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Pathways

CommonPathway;Complement and coagulation cascades; Formation of Fibrin Clot (Clotting Cascade); Hemostasis; Plateletactivation; Platelet degranulation;Response to elevated platelet cytosolic Ca²⁺

GENE INFORMATION
Gene Name

F13A1 coagulation factor XIII,A1 polypeptide [Homo sapiens]

Official Symbol

F13A1

Synonyms

F13A1; coagulation factor XIII, A1 polypeptide; F13A; coagulation factor XIII A chain; TGase; factor XIIIa; fibrinoligase;FSF, A subunit; OTTHUMP00000015990; coagulation factor XIIIa; transglutaminaseA chain; transglutaminase. Plasma; fibrin stabilizing factor, A subunit; coagulationfactor XIII, A polypeptide; protein-glutamine gamma-glutamyltransferase Achain; bA525O21.1 (coagulation factor XIII, A1 polypeptide)

Gene ID

2162

mRNA Refseq

NM_000129

Protein Refseq

NP_000120

MIM

134570

UniProt ID

P00488

Chromosome Location

6p24.2-p23

Function

metal ion binding; protein-glutamine gamma-glutamyltransferase activity;protein-

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glutamine gamma-glutamyltransferase activity; transferase activity,transferring acyl groups

**PDB rendering based
on 1evu.**

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