

## Native Human Coagulation Factor XIII, A1 Polypeptide

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

### SPECIFICATION

<b>Product Overview</b>	Native human F13A1 was expressed in Human plasma.
<b>Species</b>	Human
<b>Source</b>	Human Plasma
<b>Description</b>	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.
<b>Form</b>	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.
<b>Molecular Weight</b>	320 kDa
<b>Purity</b>	>95% by SDS-PAGE analysis
<b>Endotoxin Level</b>	<0.1 ng/ug of protein
<b>Concentration</b>	5.0 mg/ml
<b>Storage</b>	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 Ca<sup>2+</sup>

## 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; fibrinolygase;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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