

# Native Human Coagulation Factor XIII, A1 Polypeptide

**Cat. No.** F13A1-5399H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Native Human F13A1 was expressed in Human plasma and molecular weight is 312 kDa.
<b>Species</b>	Human
<b>Source</b>	Human Plasma
<b>Description</b>	Human F13A1 is produced from Factor XIII by cleavage with human alpha thrombin. Factor XIII is a tetramer composed of two pairs of chains held together by noncovalent bonds. Thrombin cleaves activation peptides from the alpha chains of Factor XIII (MW = 320 kDa) generating activated Factor XIIIa (MW = 312 kDa). The thrombin is subsequently removed via chromatography.
<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 Mass</b>	312 kDa
<b>Endotoxin</b>	< 0.1 ng/μg of protein >
<b>Purity</b>	≥95% by SDS-PAGE analysis.
<b>Storage</b>	Store at -20°C. Stable for 12 months from delivery. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	5.0 mg/ml

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## 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; coagulation factor XIIIa; transglutaminase A chain; transglutaminase. plasma; fibrin stabilizing factor, A subunit;

**Gene ID** 2162

**mRNA Refseq** NM\_000129

**Protein Refseq** NP\_000120

**MIM** 134570

**UniProt ID** P00488

**Chromosome Location** 6p24.2-p23

**Pathway** Common Pathway, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Hemostasis, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem;

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**Function**

metal ion binding; protein-glutamine gamma-glutamyltransferase activity; protein-glutamine gamma-glutamyltransferase activity; transferase activity, transferring acyl groups;

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