

Native Human Coagulation Factor XIII, A1 Polypeptide

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

SPECIFICATION

Product Overview	Native Human F13A1 was expressed in Human plasma and molecular weight is 312 kDa.
Species	Human
Source	Human Plasma
Description	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.
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 Mass	312 kDa
Endotoxin	< 0.1 ng/μg of protein.
Purity	≥95% by SDS-PAGE analysis.
Storage	Store at -20°C. Stable for 12 months from delivery. Avoid repeated freeze-thaw cycles.
Concentration	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; fibrinoligase; 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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