

Native Human Coagulation Factor XIIIa Protein

Cat. No. F13A1-321H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human Coagulation Factor XIIIa was purified from Plasma. Isoelectric point: 5.2 (inferred from the zymogen, factor XIII). Structure: tetramer (A ₂ B ₂) in the absence of calcium, two identical A chains (Mr=71,000) each containing 6 free sulfhydryls and an active site, two identical B subunit (Mr=88,000) identical subunits, A (Mr=75,000), B (Mr=88,000)/td>.
Species	Human
Source	Human Plasma
Description	Plasma FXIIIa is generated by cleavage of homogenous plasma FXIII by alpha-thrombin, in the presence of EDTA. The A ₂ B ₂ subunit is purified by ion and affinity chromatography and supplied in 50% glycerol, 0.5 mM EDTA for storage at -20 centigrade.
Form	50% glycerol/500 uM EDTA (v/v)
Molecular Mass	312,000 Da
Purity	>95% by SDS-PAGE
Usage	To dilute please use a physiologic buffer such as HBS or TBS that contains EDTA to 500 micromolar. Aliquot usable sized amounts, and freeze (at -70 centigrade) the vials not being used that day. While in use keep vials on melting ice.

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Stability Stable for 12 months.

Storage Store at -20 centigrade.

GENE INFORMATION

Gene Name F13A1 coagulation factor XIII, A1 polypeptide [Homo sapiens]

Official Symbol F13A1

Synonyms F13A1; coagulation factor XIII, A1 polypeptide; F13A; TGase; factor XIIIa; fibrinoligase; FSF, A subunit; coagulation factor XIIIa;

Gene ID 2162

mRNA Refseq NM_000129

Protein Refseq NP_000120

MIM 134570

UniProt ID P00488

Gel: Novex 4-12% Bis-Tris;
Load: Human Factor XIIIa, 1 µg per lane;
Buffer: MOPS;

Standard: SeeBluePlus 2; Myosin (191 kDa), Phosphorylase B (97 kDa), BSA (64 kDa), Glutamic Dehydrogenase (51 kDa), Alcohol Dehydrogenase (39 kDa), Carbonic Anhydrase (28 kDa), Myoglobin Red (19 kDa), Lysozyme (14 kDa);
Special Notes: In the non-reduced sample the A chain shifts down toward the B

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chain following activation.

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