

# Product datasheet for TP726929

## Factor XIIIa (F13A1) Human Recombinant Protein

### **Product data:**

#### **Product Type: Recombinant Proteins Description:** Recombinant Human Coagulation Factor XIII A Chain (C-6His) Species: Human **Expression cDNA Clone** Gly39-Met732 or AA Sequence: Tag: C-His **Buffer:** Supplied as a 0.2 um filtered solution of 50 mM NaCl, 5% Sucrose, 1% Tween 20 (v/v), 0.3% Histidine (w/v), pH 8.0. Recombinant Human Coagulation Factor XIII A Chain is produced by our Mammalian Note: expression system and the target gene encoding Gly39-Met732 is expressed with a 6His tag at the C-terminus. Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles. Storage: Stability: 12 months from date of despatch Locus ID: 2162 **UniProt ID:** P00488 Coagulation Factor XIII A Chain; Coagulation Factor XIIIa; Protein-Glutamine Gamma-Synonyms: Glutamyltransferase A Chain; Transglutaminase A Chain; F13A1; F13A Coagulation factor XIII is the last zymogen to become activated in the blood coagulation Summary: cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B subunits. The A subunits have catalytic function, and the B subunits do not have enzymatic activity and may serve as plasma carrier molecules. Platelet factor XIII is composed of just 2 A subunits, which are identical to those of plasma origin. Upon cleavage of the activation peptide by thrombin and in the presence of calcium ion, the plasma factor XIII dissociates its B subunits and yields the same active enzyme, factor XIIIa, as platelet factor XIII. This enzyme acts as a transglutaminase to catalyze the formation of gamma-glutamyl-epsilon-lysine crosslinking between fibrin molecules, thus stabilizing the fibrin clot. Factor XIII deficiency is classified into two categories: type I deficiency, characterized by the lack of both the A and B subunits; and type II deficiency, characterized by the lack of the A subunit alone. These defects can result in

a lifelong bleeding tendency, defective wound healing, and habitual abortion.



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Complement and coagulation cascades

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