abcam

Product datasheet

Native Human Factor XIIIa protein (Active) ab62412

1 Image

Description

Product name	Native Human Factor XIIIa protein (Active)
Biological activity	This product has an activity range of 39 U/mg to 200 U/mg
Purity	> 95 % Ion Exchange Chromatography. Plasma FXIIIa was generated by cleavage of homogenous plasma FXIII by alpha-thrombin, in the presence of EDTA. This product was then purified by ion and affinity chromatography.
Expression system	Native
Protein length	Full length protein
Animal free	No
Nature	Native
Species	Human

Specifications

Our **Abpromise guarantee** covers the use of **ab62412** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Enzymatic FXIIIa is composed of A2'B2. Ab62412 is the active, enzymatic tetrameric form (A2'B2) in absence of calcium ions. In contrast to the inactive tetrameric FXIII (A2B2), ab62412 has been activated by thrombin.

Preparation and Storage

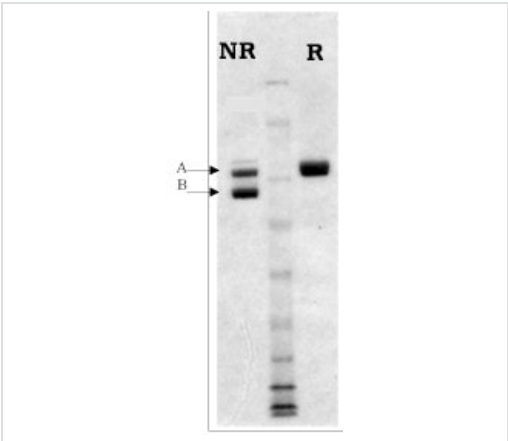
Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Constituents: 0.0146% EDTA, 50% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Factor XIII is activated by thrombin and calcium ion to a transglutaminase that catalyzes the

	formation of gamma-glutamyl-epsilon-lysine cross-links between fibrin chains, thus stabilizing the fibrin clot. Also cross-link alpha-2-plasmin inhibitor, or fibronectin, to the alpha chains of fibrin.
Involvement in disease	Defects in F13A1 are the cause of factor XIII subunit A deficiency (FA13AD) [MIM:613225]. FA13AD is an autosomal recessive disorder characterized by a life-long bleeding tendency, impaired wound healing and spontaneous abortion in affected women.
Sequence similarities	Belongs to the transglutaminase superfamily. Transglutaminase family.
Post-translational modifications	The activation peptide is released by thrombin.
Cellular localization	Cytoplasm. Secreted. Secreted into the blood plasma. Cytoplasmic in most tissues, but also secreted in the blood plasma.

Images



SDS-PAGE - Native Human Factor XIIIa protein (Active) (ab62412)

Lane 1 : Non-reduced Factor XIIIa protein (ab62412) at 1 µg
Lane 2 : Molecular weight standard
Lane 3 : Reduced Factor XIIIa protein (ab62412) at 1 µg Notes: In the non-reduced sample the A chain shifts down toward the B chain following activation.

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