

Active Native Human Coagulation Factor XIII, Alexa Fluor 700 Conjugated

Cat. No. F13-53H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Factor XIII is purified from fresh frozen human plasma by a modification of the procedures described by Folke and Lorand. Purified protein was labeled with Alexa Fluor 700 in vitro.
Species	Human
Source	Plasma
Description	Factor XIII is the zymogenic form of the glutaminyI-peptide g-glutamyl transferase?factor XIIIa?(fibrinoligase, plasma transglutaminase, fibrin stabilizing factor, E.C. 2.3.2.13). Factor XIII is unique among transamidases in that it is a zymogen in vivo. Factor XIII is found both extracellularly in plasma and intracellularly in platelets, megakaryocytes, monocytes, placenta, uterus, liver and prostrate tissues. Plasma factor XIII is synthesized in the liver and circulates as a tetramer (Mr=320,000), composed of 2 pairs of nonidentical subunits (A2B2). The intra-cellular forms are synthesized in the tissues where they reside as dimers (Mr=146,000) of 2 identical A chains (A2). The A subunits of plasma and intracellular forms of factor XIII are functionally identical. The A subunit contains 6 free sulfhydryl groups one of which is the active site.
Conjugation/Label	Alexa Fluor 700
Form	Solution

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	320 kDa
Bio-activity	Factor XIII is homogeneous as judged by SDS-PAGE, with a specific activity of ~50 units/mg.
Purity	> 95% by SDS-PAGE
Storage	At -20 centigrade.
Storage Buffer	50% glycerol containing 0.5 mM EDTA
Concentration	0.5 mg/ml
GENE INFORMATION	
Official Symbol	F13
Synonyms	F13

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