Datasheet for ABIN7319648

F13A1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	F13A1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This F13A1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human F13a/Factor XIIIa Protein (His Tag)
Sequence:	Gly39-Met732
Characteristics:	Recombinant Human Coagulation Factor XIII A Chain is produced by our Mammalian expression system and the target gene encoding Gly39-Met732 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	F13A1
Alternative Name:	F13a/Factor XIIIa (F13A1 Products)
Background:	Background: Coagulation factor XIII is the last zymogen to become activated in the blood coagulation cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B

Target Details

	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. Synonym: Coagulation Factor XIII A Chain, Coagulation Factor XIIIa, Protein-Glutamine Gamma-Glutamyltransferase A Chain, Transglutaminase A Chain, F13A1, F13A
Molecular Weight:	80.3 kDa
UniProt:	P00488

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM NaCl,5 % Sucrose, 1 % Tween 20 (v/v),0.3 % Histidine (w/v), pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.