Drugs





Coagulation factor X human

IDENTIFICATION

Name	Coagulation factor X human
Accession Number	DB13148
Туре	Biotech
Groups	Approved, Investigational
Biologic Classification	Protein Based Therapies Blood factors

Description

Coagulation Factor X (Human), is a plasma-derived human blood coagulation factor is used by adults and children (aged 12 years and above) with hereditary Factor X deficiency. However its use is limited in the perioperative setting for the management of bleeding in major surgery in patients with moderate and severe hereditary Factor X deficiency.

Coagulation Factor X is a vitamin K-dependent, liver-produced serine protease that serves as the first enzyme in the coagulation cascade to form fibrin. It is a two-chain glycoprotein with the molecular weight of approximately 59 kDa [2]. While Factor X normally circulates in the plasma as inactive molecules, the activation of Factor X is involved in both the intrinsic and extrinsic coagulation pathways. Inherited factor X deficiency is a rare autosomal recessive bleeding disorder that is estimated to occur in 1:1 000 000 individuals up to 1:500 carriers [1]. Administration of coagulation Factor X from healthy donor serves to restore and achieve effective hemostasis.

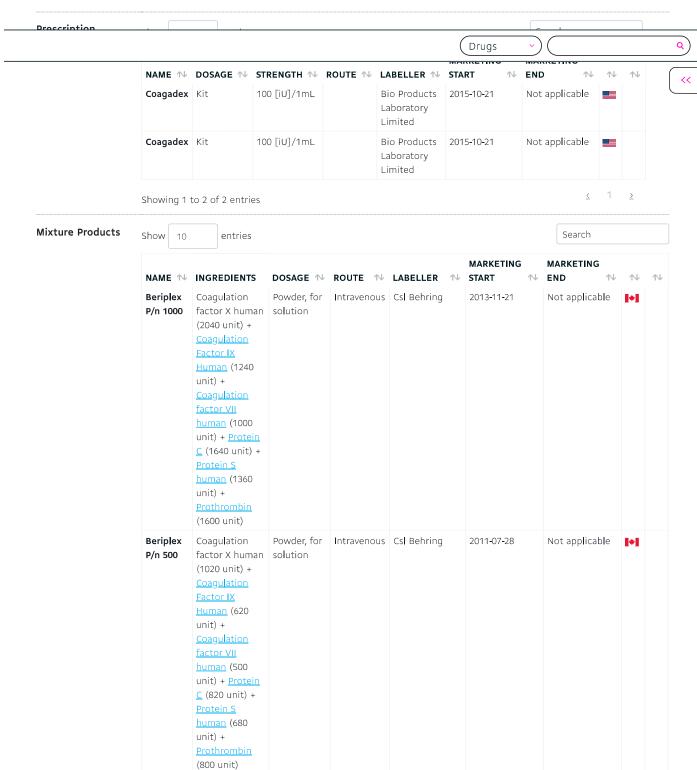
Coagulation Factor X (Human) solution is approved by the FDA for intravenous injection under the market name Coagadex which contains normally 100 IU/mL of coagulation Factor X derived from healthy donors who have passed viral screening tests [Label].

Protein structure



Factor X (stuart prower factor)
Human coagulation factor X

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Protein chemical formula	Not Available
Protein average weight	59000.0 Da
Sequences	Not Available
Synonyms	Coagulation factor X Coagulation factor X (human) Factor X



	Kcentra	Coagulation	Kit	CSL Behring	2013-12-13	Not applicable	
		factor X human		GmbH			
		(1520 U/40mL)					
		+ <u>Coagulation</u>					
https://www.aragoarm.oa/arago/bi	10110						

				(Drugs •			Q
	human (/00 U/40mL) + Protein C (1240 U/40mL) + Protein S human (920 U/40mL) + Prothrombin (1180 U/40mL)							· · ·
Kcentra	Coagulation factor X human (760 U/20mL) + Coagulation Factor IX Human (510 U/20mL) + Coagulation factor VII human (350 U/20mL) + Protein C (620 U/20mL) + Protein S human (460 U/20mL) + Prothrombin (590 U/20mL)	Kit		CSL Behring GmbH	2013-04-29	Not applicable		
Octaplex	Coagulation factor X human (600 unit) + Coagulation Factor IX Human (500 unit) + Coagulation factor VII human (480 unit) + Protein C (620 unit) + Protein S human (640 unit) + Prothrombin (760 unit)	Kit; Powder, for solution	Intravenous	Octapharma Pharmazeutika Produktionsges M B H	2008-07-08	Not applicable	I+I	

				Intravenous		2015-08-11	Not applicable	[+]	
		factor X human	for solution		Pharmazeutika				
		(1200 unit) +			Produktionsges				
		Coagulation			мвн				
https://www.aragparm.ca/araga/bb	10110								

Metabolism Not Available Drugs elimination Half life Following a single intravenous dose of 25 IU/kg, the mean plasma half-life (CV%) was 30.3 (22.8) hr [Label] Following a single intravenous dose of 25 IU/kg, the mean total body clearance was 1.35 (21.7) Clearance mL/kg/hr [Label]. Toxicity Not Available Affected organisms Humans and other mammals Not Available **Pathways** Pharmacogenomic Not Available Effects/ADRs ① INTERACTIONS

Drug Interactions

(1)

ALL DRUGS APPROVED VET APPROVED NUTRACEUTICAL ILLICIT WITHDRAWN

NUTRACEUTICAL ILLICIT WITHDRAWN

INVESTIGATIONAL EXPERIMENTAL

Search Show entries DRUG **↑** INTERACTION (R)-warfarin The therapeutic efficacy of Coagulation factor X human can be decreased when used in combination with (R)-warfarin. (S)-Warfarin The therapeutic efficacy of Coagulation factor X human can be decreased when used in combination with (S)-Warfarin. 4-hydroxycoumarin The therapeutic efficacy of Coagulation factor X human can be decreased when used in combination with 4-hydroxycoumarin. The therapeutic efficacy of Coaquiation factor X human can be decreased when used in combination with Abciximab. cenocoumaro The therapeutic efficacy of Coagulation factor X human can be decreased when used in combination with Acenocoumarol. Acetylsalicylic acid The therapeutic efficacy of Coagulation factor X human can be decreased when used in combination with Acetylsalicylic acid. Alpha-1-proteinase Alpha-1-proteinase inhibitor may increase the thrombogenic activities of Coagulation inhibitor factor X human. <u>Alteplase</u> The therapeutic efficacy of Coagulation factor X human can be decreased when used in combination with Alteplase. <u>Amediplase</u> The therapeutic efficacy of Coagulation factor X human can be decreased when used in combination with Amediplase. The risk or severity of adverse effects can be increased when Aminocaproic Acid is Aminocaproic Acid combined with Coagulation factor X human.

Showing 1 to 10 of 94 entries

<u>(1 2 3 4 5 ... 10)</u>

Food Interactions Not Available

REFERENCES

1. Brown DL, Kouides PA: Diagnosis and treatment of inherited factor X deficiency. Haemophilia. 2008 Nov;14(6):1176-82. doi: 10.1111/j.1365-2516.2008.01856.x. [PubMed:19141158]



CLINICAL TRIALS

FDA label

External Links

ATC Codes

Clinical Trials	s (i)
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Show 10

entries

PHASE ↑ STATUS ↑ PURPOSE ↑ CONI	
	DITIONS ↑↓ COUNT ↑↓
3 Completed Prevention <u>Factor</u>	or X Deficiency.
3 Completed Treatment Factor	or X Deficiency 1
3 Terminated Treatment <u>Factor</u>	or X Deficiency 1
Not Available Recruiting Not Available <u>Factor</u>	or 10 Deficiency 1

Search

<u><</u> 1 <u>></u> Showing 1 to 4 of 4 entries

PHARMACOECONOMICS

Manufacturers	Not Available							
Packagers	Not Available							
Dosage forms	Show 10 entries					Search		
	FORM	↑	ROUTE	₩	STRENGTH			₩
	Powder, for solution		Intravenous					
	Kit				100 [iU]/1mL			
	Kit							
	Kit; powder, for solution		Intravenous					
	Showing 1 to 4 of 4 entries						<u><</u> 1	<u>></u>
Prices	Not Available							
Patents	Not Available							
PROPERTIES								

TAXONOMY

State

Experimental

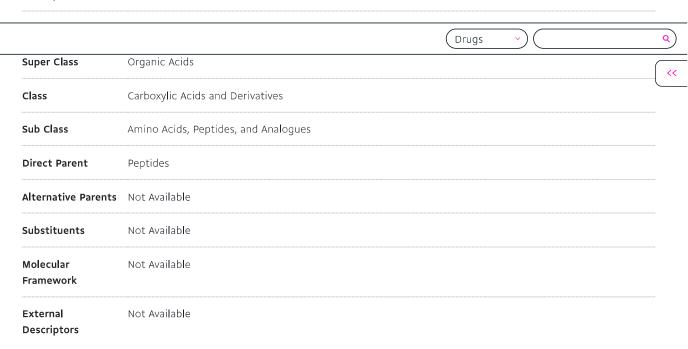
Properties

Solid

Not Available

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Drug created on November 18, 2016 13:47 / Updated on November 02, 2018 07:34

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Email Support

Not Available



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