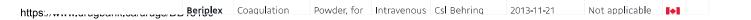
Drugs v

Coagulation factor VII human

Targets (3)

DENTIFICATION					
Name	Coagulation factor VII human				
Accession Number	DB13150				
Туре	Biotech				
Groups	Approved, Investigational				
Biologic Classification	Protein Based Therapies Blood factors				
Description	Coagulation factor VII is human serine protease type enzyme that is involved in the extrinsic coagulation cascade which results in blood clotting.				
Protein chemical formula	Not Available				
Protein average weight	Not Available				
Sequences	Not Available				
Synonyms	Coagulation factor VII (human)				
	Factor VII				
	Factor VII (proconvertin)				
	Factor VII human				
	Human coagulation factor VII				
	Proconvertin				
	Serum prothrombin conversion accelerator				
Mixture Products	Show 10 entries	Search			
	NAME ↑ INGREDIENTS DOSAGE ↑ ROUTE ↑ LABELLER ↑ START ↑	MARKETING END ↑ ↑ ↑			



Consulation footon VIII burnon , DevaDonk factor VII MARKETING MARKETING NAME THE INGREDIENTS DOSAGE ↑ ROUTE ↑ LABELLER ↑ START $\uparrow \downarrow$ END \wedge \wedge \wedge Drugs <u>Human</u> (1240 unit) + Coagulation factor X human (2040 unit) + Protein C (1640 unit) + <u>Protein</u> **S human** (1360 unit) + <u>Prothrombin</u> (1600 unit) Beriplex Coagulation Powder, for Intravenous Csl Behring 2011-07-28 Not applicable P/n 500 factor VII solution human (500 unit) + Coagulation Factor IX <u>Human</u> (620 unit) + Coagulation factor X human (1020 unit) + Protein C (820 unit) + <u>Protein</u> <u>S human</u> (680 unit) + **Prothrombin** (800 unit) Kcentra Coagulation Kit CSL Behring 2013-12-13 Not applicable factor VII GmbH human (700 U/40mL) + <u>Coagulation</u> Factor IX <u>Human</u> (1020 U/40mL) + <u>Coagulation</u> factor X human (1520 U/40mL) + Protein C (1240 U/40mL) + <u>Protein S</u> <u>human</u> (920 U/40mL) + **Prothrombin** (1180 U/40mL)

PHARMACOLOGY

CAS number

Not Available

Indication May be administered in cases of uncontrolled bleeding. Factor VII alone can be used in the treatment of congenital hemophilia A or B, acquired hemophilia, congenital factor VII deficiency,

https://www.aragpariik.oa/arago/DD 10100

and Glanzmann's thrombasthenia. Off label use in the treatment of refractory bleeding after cardiac surgery and warfarin related intracerehral hemorrhage. Brands for human factor VIII are

Conditions Pharmacodynamics Human Factor VIII is activated prothrombin fibrin. Mechanism of action Factor (TF) activated countil a clot TARGET (A) Tissue of (A) Coagula (A) Coagula (A) Coagula (B) Metabolism Degraded b Route of Catabolism Catabo	ntagonist induced major bleeding tor VII complexes with tissue factor resthat then binds to Factor X activating is to Factor IXa. Factor Xa continues the note thrombin, which leads to the form required in the extrinsic clotting cascal is released which then interacts with Fomplex VIIa. Factor VIIa then continues is formed. Factor Stion factor X Stion factor IX on since given IV.	it to Factor Xa, as well as coagulation cascade to enation of a clot by convertable. When there is vasculfactor VII resulting in the to activate coagulation for activator activator activator	coagulation Factor IX eventually convert ting fibrinogen to ar damage tissue formation of the
Conditions Pharmacodynamics Human Fact Factor VII a is activated prothrombin fibrin. Mechanism of action Factor (TF) activated countil a clot TARGET (A) Tissue f (A) Coagula (A) Coagula (A) Coagula (A) Coagula (B) Coagula (C) Coag	tor VII complexes with tissue factor resthat then binds to Factor X activating is to Factor IXa. Factor Xa continues the note thrombin, which leads to the form required in the extrinsic clotting cascallar released which then interacts with Formplex VIIa. Factor VIIa then continues is formed. Factor Sation factor X Sation factor IX on since given IV.	it to Factor Xa, as well as coagulation cascade to enation of a clot by convertable. When there is vasculfactor VII resulting in the to activate coagulation for activator activator activator	coagulation Factor IX eventually convert ting fibrinogen to ar damage tissue formation of the factors in the cascade ORGANISM Humans Humans
Factor VIIa is activated prothrombin fibrin. Mechanism of action Factor (TF) activated countil a clot TARGET (A) Tissue fice (A) Coagula (A) Coagula (A) Coagula (A) Coagula (B) Coagula (C) Coa	that then binds to Factor X activating is to Factor IXa. Factor Xa continues the notation to thrombin, which leads to the form required in the extrinsic clotting cascing released which then interacts with Formplex VIIa. Factor VIIa then continues is formed. Factor Setion factor X Setion factor IX on since given IV.	it to Factor Xa, as well as coagulation cascade to enation of a clot by convertable. When there is vasculfactor VII resulting in the to activate coagulation for activator activator activator	coagulation Factor IX eventually convert ting fibrinogen to ar damage tissue formation of the factors in the cascade ORGANISM Humans Humans
action factor (TF) activated or until a clot TARGET (A) Tissue f (A) Coagula (A) Coagula (A) Coagula (A) Coagula (B) Absorption No absorption Protein binding Binds to co Metabolism Degraded b Route of Catabolism Catabolism Half life 5 h Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available	is released which then interacts with Fomplex VIIa. Factor VIIa then continues is formed. factor ation factor X on since given IV.	ACTIONS activator activator activator	formation of the factors in the cascade ORGANISM Humans Humans
Absorption No absorption Volume of distribution Protein binding Binds to co Metabolism Degraded b Route of elimination Half life 5 h Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available	on since given IV.	activator activator activator	Humans Humans
Absorption No absorption Volume of 45 ml/kg distribution Protein binding Binds to co Metabolism Degraded b Route of Catabolism elimination Half life 5 h Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available	on since given IV.	activator	Humans
Absorption No absorption Volume of 45 ml/kg distribution Protein binding Binds to co Metabolism Degraded b Route of Catabolism elimination Half life 5 h Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available	on since given IV.	activator	
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distribution Protein binding Binds to co Metabolism Degraded b Route of Catabolism Catabolism Half life 5 h Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available	aguilation factor X and IX and tissue fac	ctor.	
Metabolism Route of Catabolism elimination Half life 5 h Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available	adulation factor X and IX and tissue fac	ctor.	
Route of Catabolism elimination Half life 5 h Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available	Binds to coagulation factor X and IX and tissue factor.		
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Clearance 7.4 ml/kgh Toxicity No evidence Affected organisms Not Available Pathways Not Available			
Toxicity No evidence Affected organisms Not Available Pathways Not Available			
Affected organisms Not Available Pathways Not Available			
Pathways Not Availabl	No evidence of toxicity. Adverse effect of excessive clotting in certain individuals.		
-	le		
Pharmacogenomic Not Availabl	Not Available		
Effects/ADRs ①	le		
ITERACTIONS			
Drug Interactions ① ALL DRUG INVESTIG.		NUTRACEUTICAL <u>I</u> L	LICIT <u>WITHDRAWN</u>

DRUG	↑↓ INTERACTION	\wedge
<u>.(R)-warfarin</u>	The therapeutic efficacy of Coagulation factor VII human can	be decreased when used

Drugs

in combination with (S)-Warfarin. 4-hydroxycoumarin The therapeutic efficacy of Coagulation factor VII human can be decreased when used in combination with 4-hydroxycoumarin. Abciximab The therapeutic efficacy of Coagulation factor VII human can be decreased when used in combination with Abciximab. The therapeutic efficacy of Coagulation factor VII human can be decreased when used Acenocoumaro in combination with Acenocoumarol. Acetylsalicylic acid The therapeutic efficacy of Coagulation factor VII 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 VII human. <u>Alteplase</u> The therapeutic efficacy of Coagulation factor VII human can be decreased when used in combination with Alteplase. The therapeutic efficacy of Coagulation factor VII human can be decreased when used <u>Amediplase</u> in combination with Amediplase. Aminocaproic Acid The risk or severity of adverse effects can be increased when Aminocaproic Acid is combined with Coagulation factor VII human.

Showing 1 to 10 of 94 entries

Food Interactions

Not Available

Synthesis Reference Björkman S, Berntorp E. Pharmacokinetics of coagulation factors: clinical relevance for patients with haemophilia. Clinical Pharmacokinetics [serial on the Internet]. (2001), [cited March 3, 2017]; 40(11): 815-832. Available from: MEDLINE.

> Mackman, N. (2009). The Role of Tissue Factor and Factor VIIa in Hemostasis. Anesthesia and Analgesia, 108(5), 1447-1452. http://doi.org/10.1213/ane.0b013e31819bceb1

General References

- 1. Cartmill M, Dolan G, Byrne JL, Byrne PO: Prothrombin complex concentrate for oral anticoagulant reversal in neurosurgical emergencies. Br J Neurosurg. 2000 Oct;14(5):458-61. [PubMed:11198768]
- 2. Frontera JA, Lewin JJ 3rd, Rabinstein AA, Aisiku IP, Alexandrov AW, Cook AM, del Zoppo GJ, Kumar MA, Peerschke EI, Stiefel MF, Teitelbaum JS, Wartenberg KE, Zerfoss CL: Guideline for Reversal of Antithrombotics in Intracranial Hemorrhage: A Statement for Healthcare Professionals from the Neurocritical Care Society and Society of Critical Care Medicine. Neurocrit Care. 2016 Feb;24(1):6-46. doi: 10.1007/s12028-015-0222-x. [PubMed:26714677]
- 3. Broze GJ Jr, Majerus PW: Purification and properties of human coagulation factor VII. J Biol Chem. 1980 Feb 25;255(4):1242-7. [PubMed:7354023]
- 4. KCENTRA monograph [Link]

External Links

PubChem Substance

347911434

CLINICAL TRIALS

Clinical Trials ①

Show 10	entries		Sear	rch	
PHASE ↑↓	STATUS ↑↓	PURPOSE ↑↓	CONDITIONS	₩	COUNT 1
1	Completed	Treatment	Thrombotic events		1
2	Completed	Treatment	<u>Haemorrhagic Cystitis</u> / <u>Other Haemostasis Disorder</u>		1
3	Completed	Treatment	Acute Major Bleeding / Disorders, Blood Coagulation		1
3	Completed	Treatment	Reversal of Coagulopathy.		1
3	Recruiting	Treatment	Significant Bleeding Risk		1

Solid

Not Available

Not Available

Organic Acids

Peptides

Not Available

Organic Compounds

Carboxylic Acids and Derivatives

Amino Acids, Peptides, and Analogues

State

Experimental

Properties

TAXONOMY

Description

Kingdom

Super Class

Class

Sub Class

Direct Parent

Alternative Parents

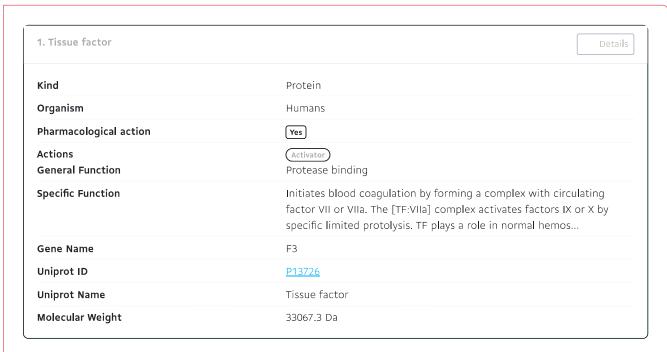
Molecular Not Available

External Not Available
Descriptors

Not Available

(<

TARGETS



2. Coagulation factor X	Details
Kind	Protein
Organism	Humans
Pharmacological action	Yes
Actions General Function	(Activator) Serine-type endopeptidase activity
Specific Function	Factor Xa is a vitamin K-dependent glycoprotein that converts prothrombin to thrombin in the presence of factor Va, calcium and phospholipid during blood clotting.
Gene Name	F10
Uniprot ID	P00742
Uniprot Name	Coagulation factor X
Molecular Weight	54731.255 Da

3. Coagulation factor IX	Detail	ls
Kind	Protein	
Organism	Humans	
Pharmacological action	Yes	
Actions General Function	(Activator) Serine-type endopeptidase activity	

Drug created on November 18, 2016 13:53 / Updated on November 02, 2018 07:34

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