

Blood coagulation components in GtoPdb v.2023.1

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Abstract

Coagulation as a process is interpreted as a mechanism for reducing excessive blood loss through the generation of a gel-like clot local to the site of injury. The process involves the activation, adhesion (see [Integrins](#)), degranulation and aggregation of platelets, as well as proteins circulating in the plasma. The coagulation cascade involves multiple proteins being converted to more active forms from less active precursors (for example, prothrombin [Factor II] is converted to thrombin [Factor IIa]), typically through proteolysis (see [Proteases](#)). Listed here are the components of the coagulation cascade targeted by agents in current clinical usage or at an advanced level of development.

Contents

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Database links

Blood coagulation components

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=853>

Enzymes

[coagulation factor II, thrombin](#)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2362>

[coagulation factor III, tissue factor](#)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3192>

[coagulation factor V](#)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2606>

[coagulation factor VIII](#)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2607>

coagulation factor X

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2359>

coagulation factor XI

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2360>

antithrombin, antithrombin III (serpin family C member 1)

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2632>

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