

## Blood coagulation components in GtoPdb v.2021.2

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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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Please note that the database version for the citations given in GtoPdb are to the most recent preceding version in which the family or its subfamilies and targets were substantially changed. The links below are to the current version. If you need to consult the cited version, rather than the most recent version, please contact the GtoPdb curators.

### 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 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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