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Coated platelets introduce significant delay in onset of peak thrombin production: theoretical predictions

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Highlights

- A mechanistic model incorporating coated platelets sub-population is developed
- Coated platelet concentration follows dose-dependence on thrombin concentration
- Competitive binding of enzymes occurs only with (coated) platelet membrane
- Neglect of coated platelets significantly overestimates onset of peak thrombin

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