

## P2Y12 Inhibitors

P2Y12 inhibitors are a class of **antiplatelet medications** that block the **P2Y12 receptor** on platelets, preventing platelet aggregation and reducing the risk of thrombotic events such as heart attacks and strokes.

## Examples of P2Y12 Inhibitors

- **Clopidogrel** – A prodrug requiring hepatic activation, commonly used in preventing cardiovascular events.
- **Prasugrel** – More potent than clopidogrel, with a faster onset and greater efficacy but higher bleeding risk.
- **Ticagrelor** – A reversible inhibitor that does not require metabolic activation, offering a more predictable response.
- **Cangrelor** – An intravenous P2Y12 inhibitor used in acute settings for rapid platelet inhibition.

## Clinical Uses of P2Y12 Inhibitors

- **Acute Coronary Syndromes (ACS)** – Used to prevent clot formation in patients with unstable angina or myocardial infarction.
- **Percutaneous Coronary Intervention (PCI)** – Administered alongside aspirin to reduce thrombotic complications post-stent placement.
- **Secondary Stroke Prevention** – Sometimes used in combination with aspirin for short-term dual antiplatelet therapy (DAPT).

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Last update: **2025/02/27 11:11**

