

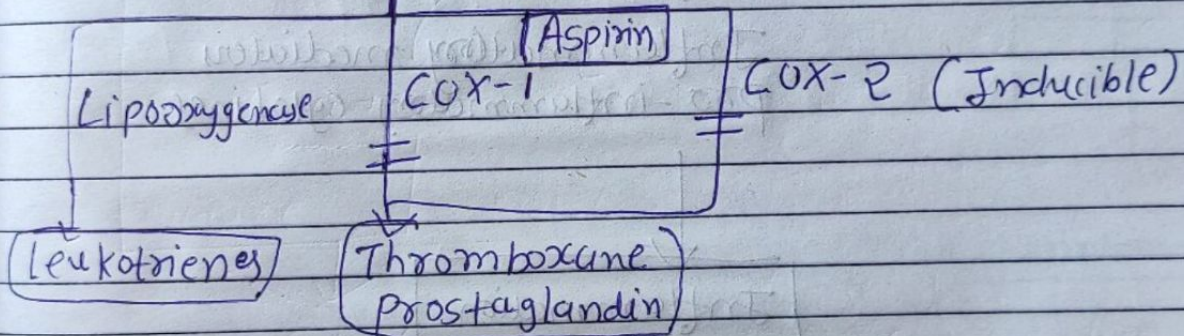
* MOA of aspirin as anti platelet aggregation

→ Aspirin + COX (Active)

↓
Salicylic acid + Inactive COX (Acetylated)

→ phospholipid
↓
phospholipase A₂

Arachidonic acid



→ Thromboxane A₂

- produced by COX-1 in platelet
- Cause platelet aggregation
- vaso-bronchoconstriction
- mobilize intracellular calcium
- contraction of smooth muscle

→ for anti platelet action

- ↓
- act on platelet cell COX-1 enzyme
- platelet has half life of 5-7 days
- so action remains for 5-7 days
- platelet has no nucleus → NO DNA → NO new synthesis of COX enzyme