Mechanism of action of NSAID

Most NSAIDs act as nonselective inhibitors of the cyclooxygenase (COX) enzymes, inhibiting both the cyclooxygenase-1 (COX-1) and cyclooxygenase-2 (COX-2) isoenzymes to produce analgesic effect. This inhibition is competitively reversible . OX catalyzes the formation of prostaglandins and thromboxane from arachidonic acid (derived from the cellular phospholipid bilayer by phospholipase A). Prostaglandins act (among other things) as messenger molecules in the process of inflammation.

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