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Flurbiprofen

National Cancer Institute

Source

National Cancer Institute. *Flurbiprofen*. NCI Thesaurus. Code C508.

A derivative of propionic acid, and a phenylalkanoic acid derivative of non-steroidal antiinflammatory drugs (NSAIDs) with analgesic, antiinflammatory and antipyretic effects. Flurbiprofen non-selectively binds to and inhibits cyclooxygenase (COX). This results in a reduction of arachidonic acid conversion into prostaglandins that are involved in the regulation of pain, inflammation and fever. This NSAID also inhibits carbonic anhydrase, thereby reducing the production of hydrogen and bicarbonate ions. Upon ocular administration, flurbiprofen may reduce bicarbonate ion concentrations leading to a decrease in the production of aqueous humor, thereby lowering intraocular pressure.