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# Diclofenac

National Cancer Institute

## Source

National Cancer Institute. *Diclofenac*. NCI Thesaurus. Code C28985.

A nonsteroidal benzeneacetic acid derivative with anti-inflammatory activity. As a nonsteroidal anti-inflammatory drug (NSAID), diclofenac binds and chelates both isoforms of cyclooxygenase (COX-1 and-2), thereby blocking the conversion of arachidonic acid to pro-inflammatory-prostaglandins. This agent also may inhibit COX-2-mediated tumor angiogenesis. When inhibiting COX-2, diclofenac may be effective in relieving pain and inflammation; when inhibiting COX-1, it may produce unacceptable gastrointestinal side effects. This agent may be more active against COX-2 than several other carboxylic acid-containing NSAIDs. (NCI04)