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Ibuprofen Injection

National Cancer Institute

Source

National Cancer Institute. *Ibuprofen Injection*. NCI Thesaurus. Code C120315.

A formulation for intravenous injection containing ibuprofen, a propionic acid derivate and nonsteroidal anti-inflammatory drug (NSAID), with anti-inflammatory, analgesic, and antipyretic activities. Upon intravenous injection, ibuprofen inhibits the activity of the enzymes cyclooxygenase I (COX-1) and II (COX-2), resulting in a decreased formation of precursors of prostaglandins and thromboxanes. Inhibition of COX-2 specifically blocks the conversion of arachidonic acid (AA) to prostaglandins, which mediate inflammation, fever and pain.