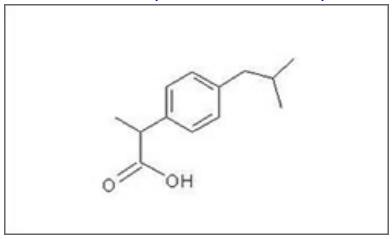
Ibuprofen

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Brand name: Advil®
Brand name: Motrin®
IUPAC: (RS)-2-(4-isobutylphenyl)propanoic acid
FDA approval: Yes
Manufacturer Link
Usage:

Ibuprofen is an anti-inflammatory drug available in several generic forms and is also known by the brand names Advil® or Motrin®. It can be given as a tablet or a liquid, usually several times daily. Ibuprofen is an ingredient in combination with hydrocodone in the prescription drug Vicoprofen®.

Mechanism:

Ibuprofen binds to both the COX1 and COX2 enzymes in the treatment of mild pain.

Sphere Stick Rotate

Above is the 3D molecular structure of Ibuprofen.

Side effects:

The most common side effects of Ibuprofen are abdominal pain, heartburn, and nausea due to COX1 inhibition and increased problems in patients with ulcers. Treatment with ibuprofen was less commonly associated with dizziness and rash. Long term use of ibuprofen in high doses can result in kidney and liver toxicities.