Taj Pharmaceuticals Ltd.

Ibuprofen

CAS No. : 15687-27-1

Systematic (IUPAC) name
2-(4-isobutylphenyl)propanoic acid

Identifiers

CAS number 15687-27-1
ATC code M01AE01
PubChem 3672
DrugBank APRD00372
ChemSpider 3544

Chemical data

Formula C13H18O2
Mol. mass 206.28
SMILES eMolecules & PubChem
Physical data
Melt. point 76 °C (169 °F)

Pharmacokinetic data

Bioavailability 49–73%
Protein binding 99%
Metabolism Hepatic (CYP2C9)
Half life 1.8–2 hours
Excretion Renal

WARNING:

This drug may infrequently cause serious (rarely fatal) bleeding from the stomach or intestines. Also, related drugs rarely have caused blood clots to form, resulting in heart attacks and strokes. This medication might also rarely cause similar problems. Talk to your doctor or pharmacist about the benefits and risks of treatment, as well as other possible medication choices.

USES

Ibuprofen is a nonsteroidal anti-inflammatory drug (NSAID), which relieves pain and swelling (inflammation). It is used to treat headaches, muscle aches, backaches, dental pain, menstrual cramps, arthritis, or athletic injuries. This medication is also used to reduce fever and to relieve minor aches and pains due to the common cold or flu.

This drug works by blocking the enzyme in your body that makes prostaglandins. Decreasing prostaglandins helps to reduce pain, swelling, and fever.

HOW TO USE

Take this medication by mouth with a full glass (8 ounces or 240 milliliters) of water unless your doctor directs you otherwise. Do not lie down for at least 30 minutes after taking this drug.

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If stomach upset occurs while taking this medication, take it with food, milk, or an antacid. The dosage is based on your medical condition and response to therapy. If repeat doses are needed, they are usually given 6 or 8 hours apart; or as directed by your doctor.
When ibuprofen is used in children, the dose is based on your child's weight. Read the product instructions to find the appropriate dose for your child's weight. Consult the pharmacist or doctor if you have questions or if you need help in choosing the appropriate dosage form.

In certain conditions (e.g., arthritis), it may take up to two weeks, taken regularly, before the full benefits of this drug take effect.For nonprescription ibuprofen products: If you are treating yourself or giving this medication to a child for undiagnosed fever or pain, consult the doctor immediately if symptoms do not improve within 24 hours, worsen or last for more than 3 days, or if new symptoms appear. To reduce your risk of stomach bleeding and other side effects, take this medication at the lowest effective dose for the shortest possible time. Do not increase your dose, take it more frequently, or take it for a longer time than prescribed.

SIDE EFFECTS

Upset stomach, nausea, vomiting, heartburn, headache, diarrhea, constipation, drowsiness, and dizziness may occur. If any of these effects persist or worsen, notify your doctor or pharmacist promptly.
Tell your doctor immediately if any of these unlikely but serious side effects occur: vision changes, rapid or pounding heartbeat, easy bruising or bleeding, difficult/painful swallowing.

Tell your doctor immediately if any of these highly unlikely but very serious side effects occur: change in amount of urine, severe headache, very stiff neck, mental/mood changes, persistent sore throat or fever.
This drug may rarely cause serious (possibly fatal) liver disease. If you notice any of the following highly unlikely but very serious side effects, stop taking ibuprofen and consult your doctor or pharmacist immediately: yellowing eyes and skin, dark urine, unusual/extreme tiredness. An allergic reaction to this drug is unlikely, but seek immediate medical attention if it occurs. Symptoms of an allergic reaction include: rash, itching, swelling, severe dizziness, trouble breathing.

PRECAUTIONS

This medication should not be used if you have certain medical conditions. Before using this medicine, consult your doctor or pharmacist if you have: severe kidney disease, aspirin-sensitive asthma (a history of worsening breathing with runny/stuffy nose after taking aspirin or other NSAIDs), recent heart bypass surgery (CABG).
Before using this medication, tell your doctor or pharmacist your medical history, especially of: kidney disease, liver disease, poorly controlled diabetes, stomach/intestine/esophagus problems (e.g., bleeding, ulcers, recurring heartburn), heart disease (e.g., congestive heart failure, history of heart attack), high blood pressure, stroke, swelling (edema, fluid retention), dehydration, blood disorders (e.g., anemia), bleeding or clotting problems, asthma, growths in the nose (nasal polyps), history of an allergic reaction with symptoms of lip/tongue/throat swelling (angioedema), any allergies in addition to those listed above.

MISSED DOSE

If you are prescribed this drug on a regular schedule (not just "as needed") and you miss a dose, use it as soon as you remember. If it is near the time of the next dose, skip the missed dose and resume your usual dosing schedule. Do not double the dose to catch up.

STORAGE

Store at room temperature between 59 and 86 degrees F (15-30 degrees C) away from light and moisture. Do not store in the bathroom. Keep all medicines away from children and pets.

DOSAGES

Ibuprofen tablets contain the active ingredient ibuprofen, which is (±) - 2 - (p - isobutylphenyl) propionic acid. Ibuprofen is a white powder with a melting point of 74-77° C and is very slightly soluble in water (< 1 mg/mL) and readily soluble in organic solvents such as ethanol and acetone.Ibuprofen tablets, a nonsteroidal anti-inflammatory drug (NSAID), is available in 400 mg, 600 mg, and 800 mg tablets for oral administration. Inactive ingredients: carnauba wax, colloidal silicon dioxide, croscarmellose sodium, hypromellose, lactose, magnesium stearate, microcrystalline cellulose, propylene glycol, titanium dioxide.

Ibuprofen belongs to a class of drugs called non-steroidal anti-inflammatory drugs (NSAIDs). Other members of this class include aspirin, naproxen (Aleve), indomethacin (Indocin), nabumetone (Relafen) and several others.
These drugs are used for the management of mild to moderate pain, fever, and inflammation. Pain, fever, and inflammation are promoted by the release in the body of chemicals called prostaglandins.
Ibuprofen blocks the enzyme that makes prostaglandins (cyclooxygenase), resulting in lower levels of prostaglandins. As a consequence, inflammation, pain and fever are reduced.

DRUG DESCRIPTION

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Note /Government Notification: These chemicals are designated as those that are used in the manufacture of the controlled substances and are important to the manufacture of the substances. For any (Control Substance) products Import and Export *** subjected to your country government laws /control substance ACT.

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The Controlled Substances Act (CSA) was enacted into law by the Congress of the United States as Title II of the Comprehensive Drug Abuse Prevention and Control Act of 1970.[1] The CSA is the federal U.S. drug policy under which the manufacture, importation, possession, use and distribution of certain substances is regulated. The Act also served as the national implementing legislation for the Single Convention on Narcotic Drugs

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