

****Albendazole is an antiparasitic medication used to treat a wide range of worm infections. It works by disrupting the energy production of parasites, leading to their death. It's commonly prescribed for tapeworms, roundworms, and other intestinal parasites.****

🧪 Chemical Composition

- ****Active Ingredient:**** *Albendazole*
- ****Molecular Formula:**** $C_{12}H_{15}N_3O_2S$
- ****Drug Class:**** Anthelmintic (benzimidazole derivative)
- ****Formulations:****
 - Tablets: 200 mg, 400 mg
 - Chewable tablets: 400 mg
 - Oral suspension: 200 mg/5 mL

💊 Dosage & Administration

- ****Route:**** Oral
- ****Typical Adult Dosage:****
 - *Single-dose deworming:* 400 mg once
 - *Neurocysticercosis or hydatid disease:* 400 mg twice daily for 8-30 days
- ****Pediatric Dosage:****
 - Children over 2 years: 400 mg once
 - Under 2 years: 200 mg once
- ****Administration Tips:****
 - Take with food, preferably a fatty meal to enhance absorption
 - Duration varies based on infection type

🏥 Medical Uses

- ****Primary Indications:****
 - *Neurocysticercosis* (pork tapeworm infection in the brain)
 - *Hydatid disease* (dog tapeworm infection)
 - *Ascariasis* (roundworm)
 - *Hookworm*
 - *Pinworm*
 - *Strongyloidiasis*
 - *Trichuriasis* (whipworm)
- ****Mechanism of Action:****
 - Inhibits microtubule synthesis in parasites
 - Depletes parasite energy stores, leading to immobilization and death

⚠️ Side Effects

- **Common:****
 - Headache

- Nausea
- Vomiting
- Dizziness
- Fever

****Serious:****

- Liver enzyme elevation
- Bone marrow suppression (rare)
- Allergic reactions (rash, swelling)
- Hair loss (temporary)

⚠ Risks & Precautions

- ****Contraindications:****
 - Known allergy to albendazole or benzimidazoles
 - Pregnancy (especially first trimester)
- ****Pregnancy & Breastfeeding:****
 - Avoid during pregnancy; use contraception during and after treatment
- ****Drug Interactions:****
 - May interact with cimetidine, dexamethasone, and praziquantel
- ****Monitoring:****
 - Liver function tests and blood counts during prolonged therapy

💬 Patient Feedback & Complaints

****Positive Feedback:****

- Effective single-dose treatment for common worms
- Easy to administer, especially chewable tablets
- Widely available and affordable

****Common Complaints:****

- Mild gastrointestinal discomfort
- Bitter taste in suspension
- Headache or dizziness
- Concerns about side effects with long-term use

📄 Summary Table

Category	Details
Drug Name	Albendazole
Active Ingredient	Albendazole

Use	Treatment of parasitic worm infections
Dosage	400 mg once or twice daily depending on condition
Common Side Effects	Headache, nausea, dizziness, fever
Serious Risks	Liver issues, bone marrow suppression, allergic reactions
Patient Feedback concerns	Effective; mild GI upset, bitter taste, long-term safety concerns
Contraindications	Pregnancy, allergy to benzimidazoles

Sources:

- [Drugs.com - Albendazole Overview](<https://www.drugs.com/mtm/albendazole.html>)
- [Practo - Albendazole Details](<https://www.practo.com/medicine-info/albendazole-7-api>)
- [Medindia - Albendazole Drug Information](https://www.medindia.net/doctors/drug_information/albendazole.htm)
