



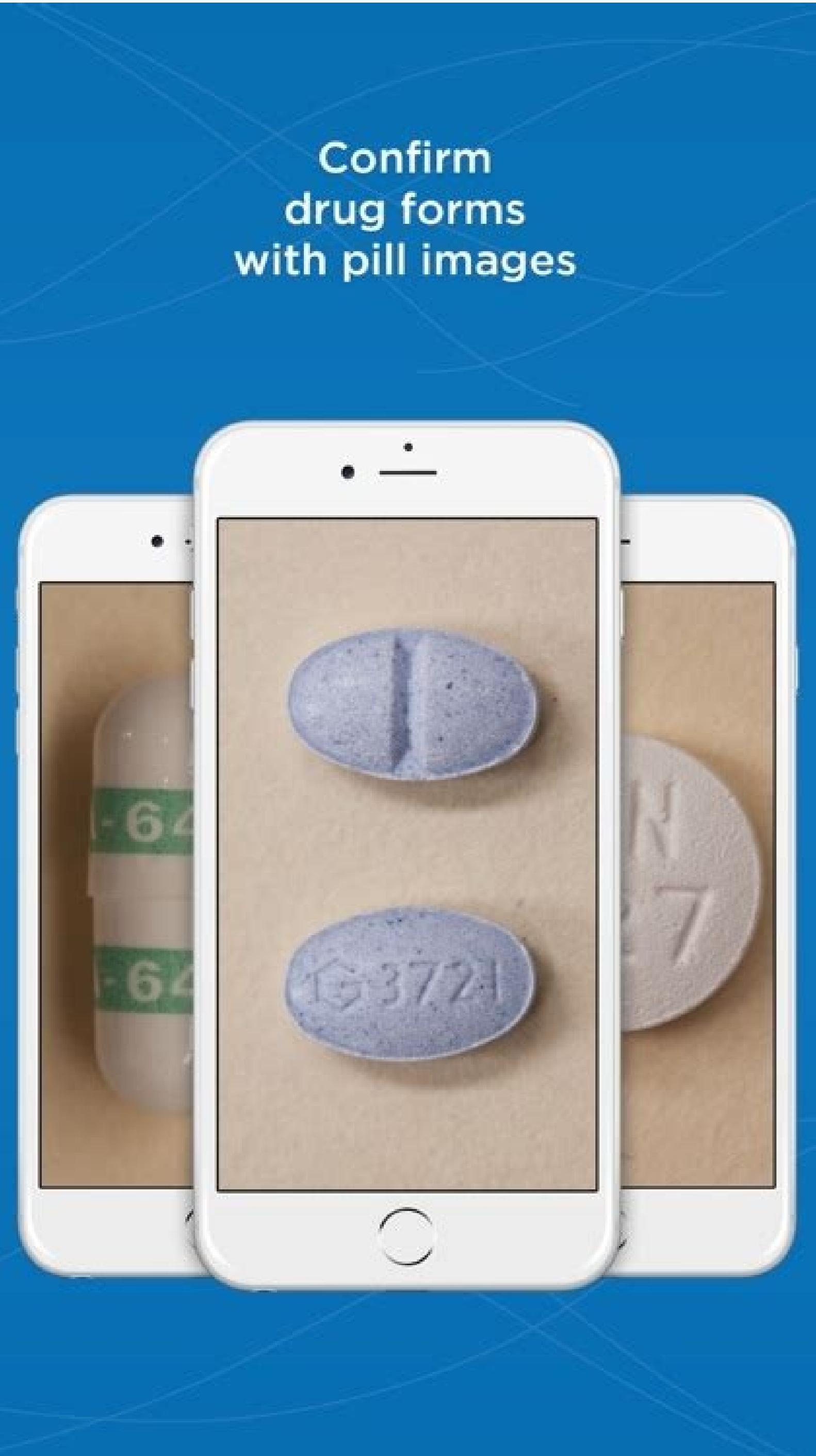
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High Alert

metoprolol (me-toe-pro-lole)
• Betoptic N, • Lopressor, • Lopressor SR, Lopressor, Toprol-XL.

Classification

Therapeutic: antianginals, antihypertensives

Pharmacologic: beta-blockers

Pregnancy Category C

Indications

Hypertension. Angina pectoris. Prevention of MI and decreased mortality in patients with recent MI. Management of stable, symptomatic (class II or III) heart failure due to ischemic, hypertension or cardiomyopathic origin (may be used with ACE inhibitors, diuretics and/or digoxin; Toprol XL only). Unlabeled Use: Ventricular arrhythmias/tachycardia. Migraine prophylaxis. Tremors. Aggressive behavior. Drug-induced asthenia. Anxiety.

Action

Blocks stimulation of beta₁(myocardial)-adrenergic receptors. Does not usually affect beta₂(pulmonary, vascular, visceral)-adrenergic receptor sites. Therapeutic Effects: Decreased BP and heart rate. Decreased frequency of attack of angina pectoris. Decreased rate of cardiovascular mortality and hospitalization in patients with heart failure.

Pharmacokinetics

Absorption: Well absorbed after oral administration.

Distribution: Crosses the blood-brain barrier, crosses the placenta, small amounts enter breast milk.

Metabolism and Excretion: Mostly metabolized by the liver (primarily by CYP2D6; the CYP2D6 enzyme system exhibits genetic polymorphism). $\text{H} = 75\%$ of population may be poor metabolizers and may have significantly \uparrow metoprolol concentrations and an \uparrow risk of adverse effects).

Half-life: 3–7 hr.

• Generic drug name H = genetic trait CAPSULE indicate W = denotes unlabeled indicate next column Intravenous = Intramuscular

TIME/ACTION PROFILE (cardiovascular effects)			
ROUTE	ONSET	PEAK	DURATION
PO*	15 min	unknown	6–12 hr
PO-ER	unknown	6–12 hr	24 hr
IV	immediate	20 min	5–8 hr

*Maximal effect on BP (chronic dosage) may not occur for 1 wk. Hypotensive effects may persist for up to 4 wk after discontinuation.

Contraindications/Precautions

Contraindicated in: Uncompensated HF; Pulmonary edema; Cardiogenic shock; Bradycardia, heart block, or sick sinus syndrome (in absence of a pacemaker).

Use Cautiously in: Renal impairment, Hepatic impairment; Geri: \uparrow sensitivity to beta-blockers, initial dose reduction recommended; Pulmonary disease (including asthma; beta₂ selectivity may be lost at higher doses); Diabetes mellitus (may mask signs of hypoglycemia); Thyrotoxicosis (may mask symptoms); Patients with a history of severe allergic reactions (intensity of reactions may be increased); OB, Lactation, Prod: Safety not established; all agents cross the placenta and may cause fetal/neonatal bradycardia, hypotension, hypoglycemia, or respiratory depression.

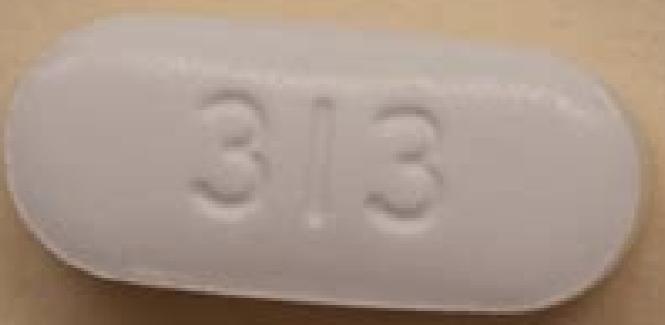
Adverse Reactions/Side Effects

CNS: fatigue, weakness, anxiety, depression, dizziness, drowsiness, insomnia, memory loss, mental status changes, nervousness, nightmares. EENT: blurred vision, stuffy nose. Resp: bronchospasm, wheezing. CV: BRADYCARDIA, BT, PULMONARY EDEMA, hypotension, peripheral vasoconstriction. GI: constipation, diarrhea, drug-induced hepatitis, dry mouth, flatulence, gastritis, pain, headache, \uparrow liver enzymes, nausea, vomiting. GU: erectile dysfunction, \downarrow libido, urinary frequency. Derm: rashes. Endo: hyperglycemia, hypoglycemia. MS: arthralgia, back pain, joint pain. Misc: drug-induced lupus syndrome.

Interactions

Drug-Drug: General anesthesia, IV phenothiazine, and verapamil may cause \uparrow myocardial depression. \uparrow risk of bradycardia when used with digoxin, verapamil, diltiazem, or clonidine. \uparrow hypotension may occur with other antihypertensives, acute ingestion of alcohol, or nitrates. Concurrent use with amphetamines, cocaine, ephedrine, epinephrine, norepinephrine, phenylephrine, or pseudoephedrine may result in unopposed alpha-adrenergic stimulation (increase by 2–3 times).





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