Propafenone (Rythmol)

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ProPafenone

**Classification of Drug**
- Class IC Antiarhythmic

**Drug’s uses**
- ProPafenone is used to treat ventricular arrhythmias, atrial fibrillation, and paroxysmal supraventricular tachycardia.

**Chemical names**
- 1-{[2-(2-Hydroxy-3-propylaminopropyl)phenyl]-3-phenyl-1-propanone
- 2-[2-hydroxy-3-(propylaminopropyl)phenyl]-1-phenyl-1-propanone
- p-Hydroxyphenolphenone

**Chemical Formula**
- C27H29NO5

**How the medicine enters the body**
- ProPafenone is an oral drug, which means that the drug enters the body through the mouth.

**How the body takes in the medicine**
- The drug is absorbed by the body mainly through the GI tract, which is the gastrointestinal system.

**What does the body do with the drug once it has been absorbed?**
- ProPafenone is a class IC antiarhythmic drug that has a direct stabilizing effect on myocardial fibers. It helps to stabilize the myocardium automatically, where automatically refers to the ability of the heart to generate automatic rhythm on its own.

**How does the body breakdown the drug?**
- The body breaks down proPafenone mostly through the liver. Cytochrome P450 (CYP) enzymes are responsible for metabolizing proPafenone into inactive compounds.

**How does the body eliminate the drug?**
- The body excretes mostly through the kidneys. It is not metabolized in urine as metabolites (that is a substance form is more hazardous).

**Water solubility (literature values)**
- 0.8705 mg/mL

**Water solubility (literature values after converting to g/100 mL)**
- 0.008705 g/100 mL

**What is ProPafenone?**
- It is a medication that is in the family of antiarrhythmics.

**Uses**
- ProPafenone is used to treat ventricular arrhythmias, atrial fibrillation, and paroxysmal supraventricular tachycardia.

**How is ProPafenone supplied?**
- ProPafenone is supplied as tablets for oral use:
  - 100 mg
  - 300 mg

**Dosing**
- Adult: 100 mg every 8 hours, may be increased to 400 mg every 6 hours.

**Calculation molar mass**
- MW = (27*12.01) + (29*1.01) + (5*15.03) = 392.20 g/mol

**Literature value for molar mass with units**
- 392.21 g/mol ± 0.02 g/mol

**Aromatic Neutral Hydrophobic**
- Ketone Neutral Hydrophilic
- Ether Neutral Hydrophilic
- Alcohol Neutral Hydrophilic
- Aminic Base Hydrophilic

**Condensed Structural Formula of ProPafenone**

**Sources**