Ajmaline

CAS Number: 4360-12-7
Molecular Formula: C_{20}H_{26}N_{2}O_{2}
Molecular Weight: 326.432 g/mol
Systematic (IUPAC): (1R,9R,10S,12R,13S,14R,16S,18R)-13-ethyl-8-methyl-8,15-diazahexacyclo[14.2.1.0^{1,9}.0^{2,7}.0^{10,15}.0^{12,17}]nonadeca-2,4,6-triene-14,18-diol

Type: small molecule

Description
An alkaloid found in the root of Rauwolfia serpentina, among other plant sources. It is a class Ia antiarrhythmic agent that apparently acts by changing the shape and threshold of cardiac action potentials. Ajmaline produces potent sodium channel blocking
effects and a very short half-life which makes it a very useful drug for acute intravenous treatments. The drug has been very popular in some countries for the treatment of atrial fibrillation in patients with the Wolff–Parkinson–White syndrome and in well tolerated monomorphic ventricular tachycardias. It has also been used for many years as a drug to challenge the conduction system of the heart in cases of bundle branch block and syncope. In these cases, abnormal prolongation of the HV interval has been taken as a proof for infrahisian conduction defects tributary for permanent pacemaker implantation.

**Categories**
Antiarrhythmic Agents
Anti-Arrhythmia Agents

**Pharmacology**

**Indication**: For use as an antiarrhythmic agent.

**Pharmacodynamics**: Ajmaline is a class 1A antiarrhythmic agent. By interfering with the sodium channels, this drug allows for improvement in abnormal rhythms of the heart

**Mechanism of action**: The class I antiarrhythmic agents interfere with the sodium channel. A class IA agent lengthens the action potential (right shift) which brings about improvement in abnormal heart rhythms. This drug in particular has a high affinity for the Nav 1.5 sodium channel.

**Affected organisms**: Humans and other mammals

**Ajmaline Drug Metabolism, Genetics, Side Effects, and Interactions**
Genelex will be happy to mail information to you or to your healthcare provider on your behalf, simply complete the request form.

Different people taking Ajmaline often have very different reactions. One person may tolerate Ajmaline well but not get the desired effect, another may have side effects or adverse reactions that make Ajmaline intolerable, and yet another may get the desired effect with no side effects. These variations in response and side effects are caused by many variables, but genetic variation and metabolism-based drug, herbal, and food interactions are among the most common.

If Ajmaline is a major or exclusive substrate for CYP2D6, CYP2C9, CYP2C19, CYP1A2, NAT2, or DPD; DNA testing can be ordered that can help your healthcare provider predict your response to this medication. To determine if testing may be advisable call 800-523-3080 and ask for DNA Drug Sensitivity Testing information.

**Therapeutic Category**
Antiarrhythmic agent

**Chemical Name**
(17R,21R)-Ajmalan-17,21-diol (JAN)

**Foreign Names**
Ajmalinum (Latin)
Ajmalin (German)
Ajmaline (French)

**Generic Names**
Ajmaline (OS: DCF, JAN)
Rauwolfine (IS)
Ajmalina (PH: F.U. IX)
Ajmalinum (PH: Ph. Helv. VI, Editio)
Apollo | Asia Division
APOLLO Pharmaceuticals
API Manufacturers INDIA [P] Ltd. | Asia Division

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+91-22-65650001

Wireline Sales HELPDESK:
+91-22-65500009
+91-22-65050009

Wireless 24x7 HELPDESK:
+9191-46-951951
+9191-46-950950

Blackberry Pin:
32E6500D | 32E65010 | 28415C58

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purchase@apollopharma.in

www.apolloworld.in
www.apollopharma.in
www.apollopharmaceuticals.Net

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Skype NAME: VipinrSaxena
Rocketmail: VipinrSaxena
Google mail: VipinrSaxena
BlackBerry: 28415C58
Regd. Office :-
1104, Maker Chamber V,
Nariman Point
Mumbai, INDIA
Pin: 400021
Industrial Office
D-62, OIC India
Oshiwara Industrial Centre,
New Link Road,
Goregoan West,
Mumbai, INDIA
Pin: 400104
Manufacturing Unit Address:
Plot No. 117A,
Village: Chamble
Near MonaTona Limited, Wada,
Maharashtra,
PIN : 421312 | INDIA
Email:
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Export@apollopharma.in
purchase@apollopharma.in
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