

## Amlodipine maleate Cas No.150 - 47 -7

Taj Pharmaceuticals.Ltd  
**Amlodipine Maleate**  
Cas no88150-47-4

Amlodipine besylate is the besylate salt of Amlodipine, a long-acting calcium channel blocker.

Amlodipine besylate is chemically described as 3-Ethyl-5-methyl (±)-2-[(2-aminoethoxy) methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate, monobenzenesulphonate. Its molecular formula is C<sub>20</sub>H<sub>25</sub>CIN<sub>2</sub>O<sub>5</sub>•C<sub>6</sub>H<sub>6</sub>O<sub>3</sub>S, and its structural formula is:

Amlodipine is a dihydropyridine calcium antagonist (calcium ion antagonist or slow-channel blocker) that inhibits the transmembrane influx of calcium ions into vascular smooth muscle and cardiac muscle. Experimental data suggest that Amlodipine binds to both dihydropyridine and nondihydropyridine binding sites. The contractile processes of cardiac muscle and vascular smooth muscle are dependent upon the movement of extracellular calcium ions into these cells through specific ion channels.

Cosopt lowers high pressure in the eye, a problem typically caused by the condition known as open-angle glaucoma. Cosopt works by reducing production of the liquid that fills the eyeball.

Norvasc does not change sinoatrial nodal function or atrioventricular conduction in intact animals or man. In patients with chronic stable angina, intravenous administration of 10 mg did not significantly alter A-H and H-V conduction and sinus node recovery time after pacing. Similar results were obtained in patients receiving Norvasc and concomitant beta-blockers. In clinical studies in which Norvasc was administered in combination with beta-blockers to patients with either hypertension or angina, no adverse effects on electrocardiographic parameters were observed. In clinical trials with angina patients alone, Norvasc therapy did not alter electrocardiographic intervals or produce higher degrees of AV blocks.

