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Bisoprolol

National Cancer Institute

Source

National Cancer Institute. *Bisoprolol*. NCI Thesaurus. Code C61653.

A selective beta-1 adrenergic receptor antagonist with antihypertensive activity and devoid of intrinsic sympathomimetic activity. Bisoprolol selectively and competitively binds to and blocks beta-1 adrenergic receptors in the heart, thereby decreasing cardiac contractility and rate. This leads to a reduction in cardiac output and lowers blood pressure. In addition, bisoprolol prevent the release of renin, a hormone secreted by the kidneys that causes constriction of blood vessels.