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Milfasartan

National Cancer Institute

Source

National Cancer Institute. *Milfasartan*. NCI Thesaurus. Code C66152.

A nonpeptide angiotensin II receptor antagonist with antihypertensive activity. Milfasartan selectively competes with angiotensin II for the binding of the angiotensin II (AT₁) receptor subtype 1 in vascular smooth muscle, thereby blocking angiotensin II-mediated vasoconstriction resulting in vascular dilatation. In addition, the antagonistic effect on AT₁ in the adrenal gland, prevents angiotensin II-induced stimulation of aldosterone synthesis and secretion by the adrenal cortex. This blocks the effects of aldosterone leading to an increase in sodium excretion and water and eventually a reduction in plasma volume and blood pressure.