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Amiloride

National Cancer Institute

Source

National Cancer Institute. *Amiloride*. NCI Thesaurus. Code C61633.

A synthetic pyrazine derivative with antihypertensive and diuretic properties. Amiloride inhibits sodium channels located in the distal tubules and collecting ducts of the kidney, thereby preventing the absorption of sodium and increasing its excretion along with water, to produce natriuresis. In response to the hypernatremic conditions in the kidney, the plasma membrane becomes hyperpolarized and electrochemical forces are reduced, which then prevents the excretion of potassium and hydrogen into the lumen.