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Indapamide

National Cancer Institute

Source

National Cancer Institute. *Indapamide*. NCI Thesaurus. Code C29119.

An indole derivative of chlorosulphonamide and a sulfamyl diuretic with antihypertensive activity. Indapamide may interact directly with the subunits of delayed rectifier potassium channels, thereby blocking both slow and rapid K⁺ (IKs and IKr) currents through the channels. Through the homeostasis mechanism in balancing total ion concentration (Ca⁺⁺, Na⁺), it reduces vascular hyperreactivity and peripheral and arterial vascular resistance, possibly by inhibiting transmembrane ionic influx, probably calcium ions, and stimulating prostaglandin E2 synthesis, thereby causing vasodilatation. Indapamide exerts its diuretic effect by inhibiting reabsorption of sodium and chloride, primarily as a result of action on the cortical diluting segment of the renal distal tubule, thereby promoting urinary excretion of water and electrolytes.