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Dioxifedrine

National Cancer Institute

Source

National Cancer Institute. *Dioxifedrine*. NCI Thesaurus. Code C65417.

A beta-2 -adrenergic agonist with bronchodilator activity. Dioxifedrine selectively binds to and activates beta-2 adrenergic receptors in bronchiolar smooth muscle, thereby causing stimulation of adenylyl cyclase, the enzyme that catalyzes the conversion of adenosine triphosphate (ATP) to cyclic-3',5'-adenosine monophosphate (cAMP). Increased intracellular cAMP levels cause relaxation of bronchial smooth muscle. This increases air flow and prevents bronchospasms and may eventually lead to an improvement of airway function.