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Protokylol Hydrochloride

National Cancer Institute

Source

National Cancer Institute. *Protokylol Hydrochloride*. NCI Thesaurus. Code C66496.

The hydrochloride salt form of protokylol, a derivative of the beta-adrenergic receptor agonist isoproterenol with bronchodilator activity. Protokylol binds to beta-2 adrenergic receptors in bronchial smooth muscle, thereby activating intracellular adenylyl cyclase, an enzyme that catalyzes the conversion of adenosine triphosphate (ATP) to cyclic-3',5'-adenosine monophosphate (cAMP). Increased cAMP levels cause relaxation of bronchial smooth muscle, relieve bronchospasms, improve mucociliary clearance and inhibit the release of mediators of immediate hypersensitivity from cells, especially from mast cells.