

Open Peer Review on Qeios

Isoetharine

National Cancer Institute

Source

National Cancer Institute. <u>Isoetharine</u>. NCI Thesaurus. Code C65974.

A beta-adrenergic receptor agonist with bronchodilator activity. Isoetharine selectively binds to beta-2 adrenergic receptors in bronchial smooth muscle, thereby activating intracellular adenyl 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 reduce mediator substance release from inflammatory cells, especially from mast cells.

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