

Open Peer Review on Qeios

## **Formoterol**

National Cancer Institute

## Source

National Cancer Institute. Formoterol. NCI Thesaurus. Code C65754.

A long-acting beta-adrenergic receptor agonist with bronchodilator activity. Formoterol 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.

Qeios ID: 1O5T96 · https://doi.org/10.32388/1O5T96