Procaterol is an agonist at β2-adrenergic receptors that exhibits anti-inflammatory, anti-asthma, and bronchodilatory activities. Procaterol is used to treat asthma. In animal models, procaterol suppresses anaphylactic reactions. In bronchial epithelial cells, procaterol inhibits release of RANTES, GM-CSF, and IL-8, inhibiting eosinophil chemotaxis. Additionally, procaterol decreases expression of intracellular adhesion molecule 1 (ICAM-1) and vascular cellular adhesion molecule 1 (VCAM-1), inhibiting adhesion of eosinophils to fibroblasts.

References