

Formoterol (Fumarate)

Catalog No: tcsc1326



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

43229-80-7

Formula:

$C_{19}H_{24}N_2O_4 \cdot \frac{1}{2}C_4H_4O_4$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Formoterol

Observed Molecular Weight:

402.44

Product Description

Formoterol fumarate(Foradil) is a potent, selective and long-acting β 2-adrenoceptor agonist.

IC50 Value: 2.1 nM in pregnant C3H/HeN strain mice[5]

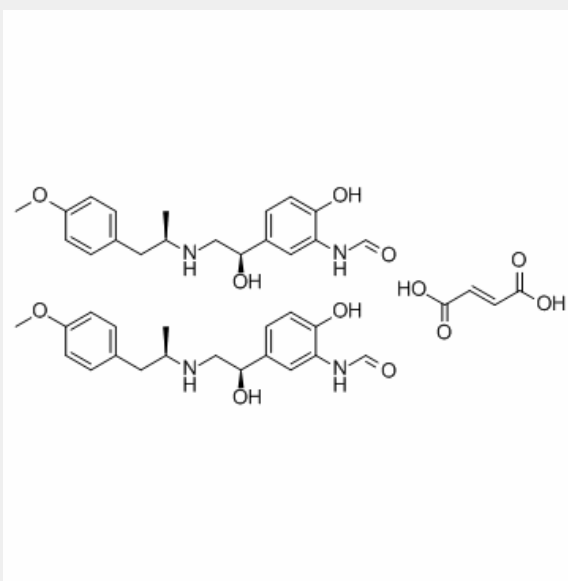
Target: β 2 receptor

Budesonide/formoterol in a single inhaler for both maintenance and reliever therapy is now an established therapeutic option for management of inadequately controlled asthma[4].

in vitro: The long-acting β (2)-agonist formoterol and the glucocorticoid dexamethasone significantly reduced HRV-induced ERK phosphorylation, Fra-1, and MMP-9 expression in BEAS-2B cells[3].

in vivo: compared the bronchodilatory effects of inhaled budesonide/formoterol (dose: 200 μ g and 12 μ g respectively) combination with budesonide (200 μ g)/salbutamol (200 μ g) administered by metered dose inhaler and spacer in children of 5-15 years with mild acute exacerbation of asthma [Modified Pulmonary Index Score (MPIS) between 6-8] in this double-blind, randomized controlled trial. The primary outcome was FEV1 (% predicted) in the two groups at 1, 5, 15, 30, 60 min after administration of the study drug[1]. Fifteen randomized, placebo-controlled clinical trials including COPD patients were evaluated: indacaterol 75 μ g once daily (n = 2 studies), indacaterol 150 μ g once daily (n = 5), indacaterol 300 μ g once daily (n = 4), FOR/BUD 9/160 μ g twice daily (n = 2), FOR/BUD 9/320 μ g twice daily (n = 2), SAL/FP 50/500 μ g twice daily (n = 4), and SAL/FP 50/250 μ g twice daily (n = 1)[2].

Clinical trial: Effects of Mometasone Furoate/Formoterol Combination Versus Mometasone Furoate Alone in Persistent Asthmatics (Study P04073) . Phase3



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