

Indacaterol

Catalog No: tcsc0744



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

312753-06-3

Formula:

$C_{24}H_{28}N_2O_3$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

392.49

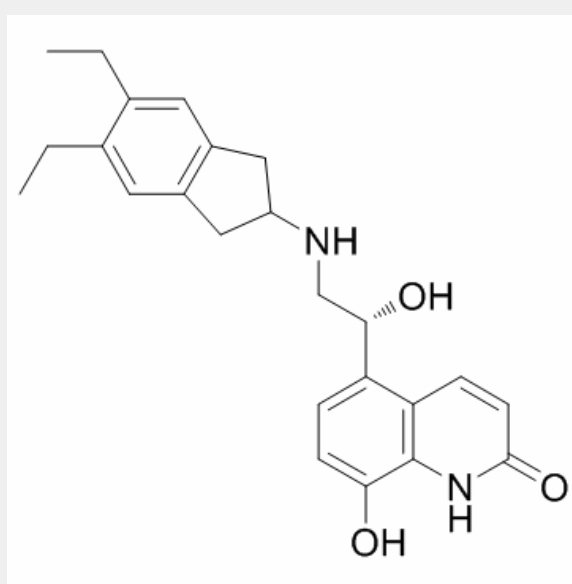
Product Description

Indacaterol(Onbrez; Arcapta) is an ultra-long-acting β -adrenoceptor agonist.

IC50 value:

Target: β -adrenoceptor

Indacaterol inhibits cAMP production in Chinese hamster ovary cells stably transfected with human β_2 adrenoceptors with pEC₅₀ of 8.06. Indacaterol inhibits electrically induced contraction on the electrically stimulated guinea pig trachea in a concentration-dependent manner with pEC₅₀ of 8.23. Indacaterol induces a concentration-dependent inotropic effect with maximal efficacy of 75% in the isolated guinea pig left atrium [1]. Indacaterol reverses the carbachol-induced contraction in a concentration-dependent manner with IC₅₀ of 37 nM in human small airways. Indacaterol concentration dependently reverses the serotonin-induced contraction with IC₅₀ of 10.5 nM in rat small airways. Indacaterol has the highest intrinsic efficacy of 53% in rat small airways and 73% in human small airways [2]. Indacaterol (6.7 μ g/kg) inhibits 5-HT-induced bronchoconstriction with a maximal effect of 85% in the conscious guinea pig. Indacaterol (12.5 μ g/kg) dose-dependently inhibits methacholine-induced bronchoconstriction with a maximal effect of 85% in the anesthetized rhesus monkey [1].



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