

# 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

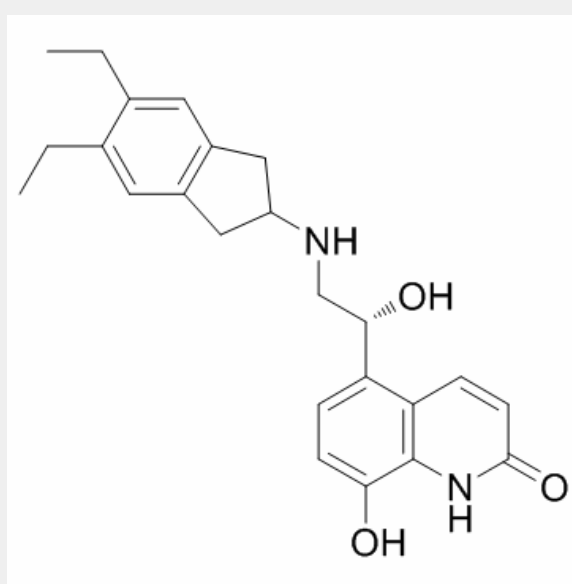
## Product Description

Indacaterol(Onbrez; Arcapta) is an ultra-long-acting  $\beta$ -adrenoceptor agonist.

IC50 value:

Target:  $\beta$ -adrenoceptor

Indacaterol inhibits cAMP production in Chinese hamster ovary cells stably transfected with human  $\beta_2$  adrenoceptors with pEC<sub>50</sub> of 8.06. Indacaterol inhibits electrically induced contraction on the electrically stimulated guinea pig trachea in a concentration-dependent manner with pEC<sub>50</sub> 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 IC<sub>50</sub> of 37 nM in human small airways. Indacaterol concentration dependently reverses the serotonin-induced contraction with IC<sub>50</sub> 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  $\mu$ g/kg) inhibits 5-HT-induced bronchoconstriction with a maximal effect of 85% in the conscious guinea pig. Indacaterol (12.5  $\mu$ g/kg) dose-dependently inhibits methacholine-induced bronchoconstriction with a maximal effect of 85% in the anesthetized rhesus monkey [1].



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