Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Indacaterol (maleate)

Catalog No: tcsc2703

Available Sizes

Size: 100mg

Size: 500mg

Specifications

CAS No:
753498-25-8

Formula:
$C_{28}H_{32}N_2O_7$

Pathway:
GPCR/G Protein

Target:
Adrenergic Receptor

Purity / Grade:
>98%

Solubility:
DMSO : 100 mg/mL (196.63 mM; Need ultrasonic)

Alternative Names:
QAB149

Observed Molecular Weight:
508.56

Product Description

Indacaterol (QAB149) maleate is an ultra-long-acting β-adrenoceptor agonist.

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IC50 & Target: β-adrenoceptor[1].

In Vivo: Indacaterol (QAB149) inhibits cAMP production in Chinese hamster ovary cells stably transfected with human β2 adrenoceptors with pEC_{50} of 8.06. Indacaterol (QAB149) inhibits electrically induced contraction on the electrically stimulated guinea pig trachea in a concentration-dependent manner with pEC_{50} 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_{50} of 37 nM in human small airways. Indacaterol concentration dependently reverses the serotonin-induced contraction with IC_{50} 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 (QAB149) (6.7 μg/kg) inhibits 5-HT-induced bronchoconstriction with a maximal effect of 85% in the conscious guinea pig. Indacaterol (QAB149) (12.5 μg/kg) dose-dependently inhibits methacholine-induced bronchoconstriction with a maximal effect of 85% in the anesthetized rhesus monkey[1].