

Catalog # 10-4371 Indacaterol maleate

CAS# 753498-25-8

5-[(1R)-2-[(5,6-Diethyl-2,3-dihydro-1H-inden-2-yl)amino]-1-hydroxyethyl]-8-hydroxy-1H-quinolin-2-one maleate salt; **QAB149**

Lot # FBA10068

Indacaterol maleate is a full agonist (pEC₅₀ = 8.06) of the human Ω 2 adrenoceptor.^{1,2} Clinically important drug for the treatment of chronic obstructive pulmonary disease. Indacaterol blocked colorectal cancer progression in vitro (IC50 = 19.01 µM) and in vivo via inhibition of the splicing factor SRSF6 by binding to its RRM2 domain.3 It also blocked cell migration in metastatic breast cancer MDA-MB-231 cells by a similar mechanism.4

- 1) Battram et al. (2006), In vitro and in vivo pharmacological characterization of 5-[(R)-2-(5,6-diethyl-indan-2-ylamino)-1-hydroxyethyl]-8-hydroxy-1H-quinolin-2-one (indacaterol), a novel inhaled ß2 adrenoceptor agonist with a 24-h duration of action; J. Pharmacol. Exp. Ther. 317 762
- 2) Sturton et al. (2008), Pharmacological characterization of indacaterol, a novel once daily inhaled 2 adrenoceptor agonist on small airways in human and rat precision-cut lung slices; J. Pharmacol. Exp. Ther. 324 270
- 3) Wan et al. (2017), SRSF6-regulated alternative splicing that promotes tumour progression offers a therapy target for colorectal cancer; Gut 68 118
- 4) Ayama-Canden et al. (2023), Indacaterol inhibits collective cell migration and IGDQ-mediated single cell migration in metastatic breast cancer MDA-MB-231 cells; Cell Commun. Signal. 21 301

PHYSICAL DATA

Molecular Weight: 508.57

Solubility:

Molecular Formula: $C_{24}H_{28}N_2O_3 \cdot C_4H_4O_4$ Purity: >98% by HPLC NMR: (Conforms)

DMSO (>25 mg/ml) Physical Description: White to off-white solid

Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in

DMSO may be stored at -20°C for up to 3 months.

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