

Product Data Sheet

Product Name: Olodaterol

Cat. No.: GC44508

Chemical Properties

Cas. No. 868049-49-4

SMILES COC1=CC=C(C(C(C)(C)N([H])C[C@H](O)C2=C(OCC(N3[H])=O)C3=CC(O)=C2)C=C1

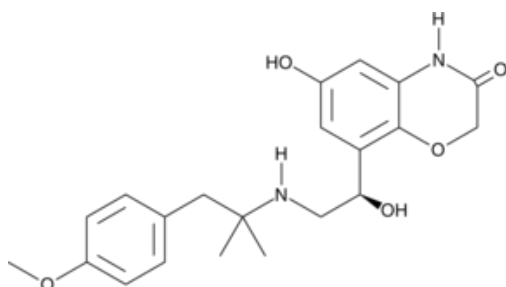
Formula C₂₁H₂₆N₂O₅ M.Wt 386.4

Solubility DMF: 20 mg/ml, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:3): 0.25 mg/ml, DMSO: 15 mg/ml, Ethanol: 1 mg/ml

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure



Background

Olodaterol is a selective agonist of β_2 -adrenergic receptors (β_2 -ARs; EC₅₀s = 97.7 and 2,725 nM for human β_2 - and β_1 -ARs, respectively). In vivo, olodaterol completely reverses acetylcholine-induced bronchoconstriction without cardiovascular side effects in guinea pigs. It also exhibits dose-dependent bronchoprotection in a beagle model of acetylcholine-induced bronchoconstriction for a period of 24 hours, indicating potential for once-daily dosing. Formulations containing olodaterol have been used to treat bronchoconstriction associated with chronic obstructive pulmonary disease.

Caution: Product has not been fully validated for medical applications. For research use only.

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