

Product Data Sheet

Product Name: Abediterol

Cat. No.: GB62190

Chemical Properties

Cas. No. 915133-65-2

SMILES O=C1NC2=C(C([C@@H](O)CNCCCCCOCC(F)(F)C3=CC=CC=C3)=CC=C2O)C=C1

Formula C₂₅H₃₀F₂N₂O₄

M.Wt 460.5218

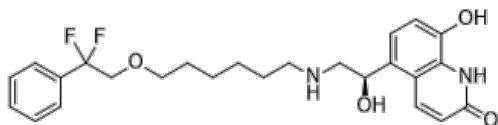
Solubility Soluble in DMSO, not in water

Storage Store at -20°C

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 size: ship with RT, or blue ice upon request.

Structure



Background

Abediterol, also known as LAS100977, is a novel potent, long-acting inhaled $\beta(2)$ -adrenoceptor agonist in development for the treatment of asthma and chronic obstructive pulmonary disease. Abediterol shows subnanomolar affinity for the human $\beta(2)$ -adrenoceptor and a functional selectivity over $\beta(1)$ -adrenoceptors higher than that of formoterol and indacaterol in both a cellular model with overexpressed human receptors and isolated guinea pig tissue. Abediterol is a full agonist at the human $\beta(2)$ -adrenoceptor ($E(\text{max}) = 91 \pm 5\%$ of the maximal effect of isoprenaline). The potency and onset of action that abediterol shows in isolated human bronchi ($EC(50) = 1.9 \pm 0.4 \text{ nM}$; $t_{1/2} \text{ onset} = 7\text{--}10 \text{ min}$) is not significantly different from that of formoterol, but its duration of action ($t_{1/2} \sim 690 \text{ min}$) is similar to that of indacaterol.

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

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