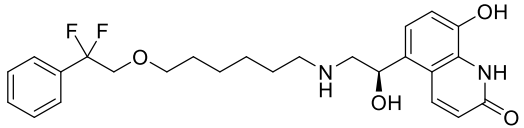


Product data sheet



MedKoo Cat#: 319754 Name: Abediterol CAS#: 915133-65-2 (free base) Chemical Formula: C ₂₅ H ₃₀ F ₂ N ₂ O ₄ Exact Mass: 460.2174 Molecular Weight: 460.5218	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

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.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
N/A	N/A	N/A

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.17 mL	10.86 mL	21.71 mL
5 mM	0.43 mL	2.17 mL	4.34 mL
10 mM	0.22 mL	1.09 mL	2.17 mL
50 mM	0.04 mL	0.22 mL	0.43 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

N/A

In vivo study

N/A

7. Bioactivity

Biological target:

Abediterol, also known as LAS100977, is a novel potent, long-acting inhaled $\beta(2)$ -adrenoceptor agonist.

In vitro activity

N/A

Product data sheet



In vivo activity

N/A

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.