

Bedaquiline

Catalog No: tcsc2921



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

843663-66-1

Formula:

$C_{32}H_{31}BrN_2O_2$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

TMC207;R207910

Observed Molecular Weight:

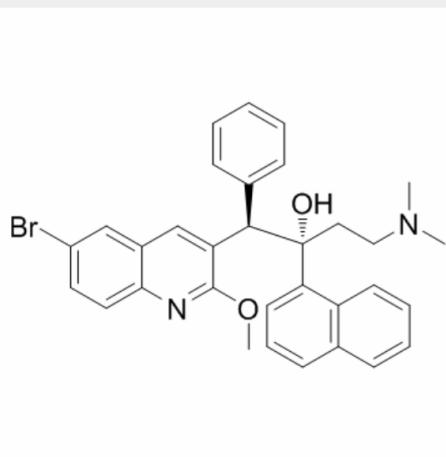
555.5

Product Description

Bedaquiline is a diarylquinoline antibiotic that inhibits **mycobacterial ATP synthase**.

IC50 & Target: mycobacterial ATP synthase^[1]

In Vitro: Bedaquiline inhibits the growth of TDR M. tuberculosis strains, with MIC values ranging from 0.125 to 0.5 mg/L^[1]. Among slowly growing mycobacteria (SGM), bedaquiline exhibits the highest activity against *Mycobacterium avium* with MIC₅₀ and MIC₉₀ values of 0.03 and 16 mg/L, respectively. Among rapidly growing mycobacteria (RGM), *Mycobacterium abscessus subsp. abscessus* (*M. abscessus*) and *Mycobacterium abscessus subsp. massiliense* (*M. massiliense*) seem more susceptible to bedaquiline than *Mycobacterium fortuitum*, with MIC₅₀ and MIC₉₀ values of 0.13 and >16 mg/L, respectively, for both species. Bedaquiline also shows moderate in vitro activity against NTM species^[2]. Bedaquiline has an excellent in vitro activity against *Mycobacterium tuberculosis*, including multidrug resistant M tuberculosis^[3].



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