

Bedaquiline (fumarate)

Catalog No: tcsc2922



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

845533-86-0

Formula:

$C_{36}H_{35}BrN_2O_6$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

R403323;TMC207 fumarate;R207910 fumarate

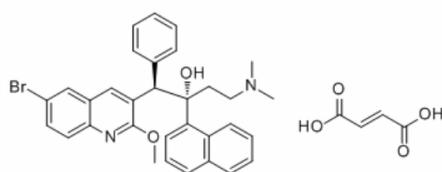
Observed Molecular Weight:

671.58

Product Description

Bedaquiline fumarate, a diarylquinoline antibiotic that targets ATP synthase, is effective for the treatment of Mycobacterium tuberculosis infections.

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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