Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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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 MIC_{50} and MIC_{90} 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 MIC_{50} and MIC_{90} 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].