

# 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

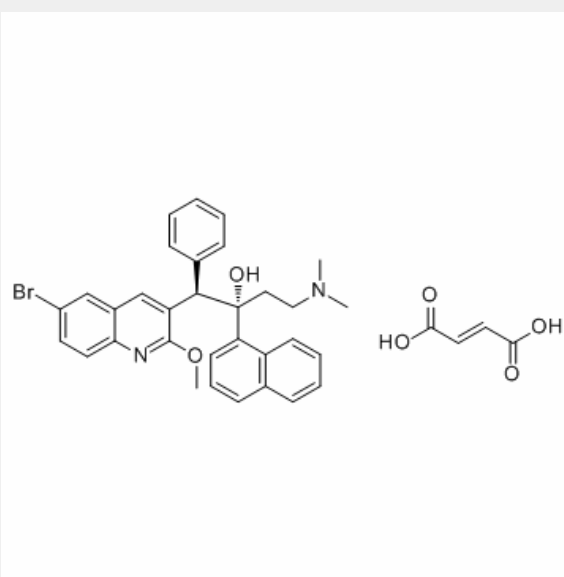
**Observed Molecular Weight:**

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<sup>[1]</sup>. Among slowly growing mycobacteria (SGM), bedaquiline exhibits the highest activity against *Mycobacterium avium* with MIC<sub>50</sub> and MIC<sub>90</sub> 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<sub>50</sub> and MIC<sub>90</sub> values of 0.13 and >16 mg/L, respectively, for both species. Bedaquiline also shows moderate in vitro activity against NTM species<sup>[2]</sup>. Bedaquiline has an excellent in vitro activity against Mycobacterium tuberculosis, including multidrug resistant M tuberculosis<sup>[3]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!