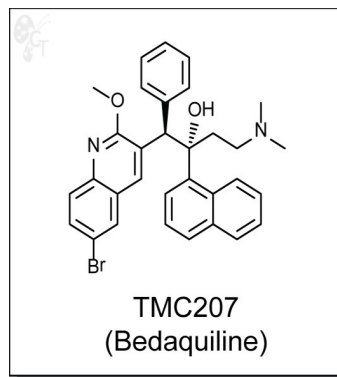




Product Specification Sheet

Product Name: TMC207 (Bedaquiline)

Catalog Number: C8207



Technical information:

Chemical Formula: $C_{24}H_{28}N_2O_3$

CAS #: 843663-66-1

Molecular Weight: 555.5

Purity: > 98%

Appearance: white solid

Solubility: Soluble in DMSO up to 2 mM

Chemical Name: (1R,2S)-1-(6-bromo-2-methoxyquinolin-3-yl)-4-(dimethylamino)-2-(naphthalen-1-yl)-1-

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

- Handling:**
- To make 2 mM stock solution, add 0.9mL of DMSO for each mg of TMC207 (Bedaquiline).
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: TMC207 (Bedaquiline) is a diarylquinoline-based inhibitor of bacterial ATP synthase at nanomolar concentrations. In vitro mycobacterial experiments show that TMC207 inhibits drug-sensitive and drug-resistant mycobacterial TB at an MIC range of 2 to 60 nM and an MIC50 of 30 ng/mL. Additionally TMC207 is broadly potent against many non-tuberculous mycobacteria, with MICs of 6 to 500 nM. (1)

Studies show that TMC207 is orally-available and efficacious on a once-daily administration for patients with pulmonary TB. No serious adverse events were observed. (2)

- Reference:**
1. Matteelli et al., TMC207: the first compound of a new class of potent anti-tuberculosis drugs. Future Microbiol. 2010, 5(6), 849-858. Pubmed ID: 20521931
 2. Rustomjee et al., Early Bactericidal Activity and Pharmacokinetics of the Diarylquinoline TMC207 in Treatment of Pulmonary Tuberculosis. Antimicrob. Agents Chemother. 2008, 52(8), 2831-2835. Pubmed ID: 18505852

To reorder: <http://www.cellagentech.com/TMC207-Bedaquiline/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.