



LKT Laboratories, Inc.

## Bedaquiline

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### Product Information

**Product ID** B165122

**CAS No.** 843663-66-1

**Chemical Name** (1R,2S)-1-(6-Bromo-2-methoxy-3-quinoliny)-4-(dimethylamino)-2-(1-naphthyl)-1-phenyl-2-butanol

**Synonym** BQ1; bromo-2-methoxy-quinolin-3-yl)-4-dimethylamino-2-naphthalen-1-yl-1-phenyl-butan-2-ol; Sirturo; TMC207

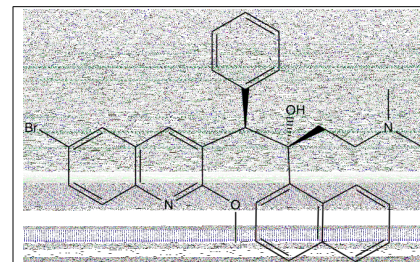
**Formula** C<sub>32</sub>H<sub>31</sub>BrN<sub>2</sub>O<sub>2</sub>

**Formula Wt.** 555.5

**Melting Point** 183.9 °C

**Purity** ≥99%

**Solubility**



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size  | List Price |
|------------|-------|------------|
| B165122    | 5 mg  | \$222.40   |
| B165122    | 10 mg | \$390.60   |
| B165122    | 25 mg | \$931.40   |

**Store Temp** 4 °C

**Ship Temp** Ambient

**Description** Bedaquiline is a diarylquinoline found to be useful in treating multidrug-resistant tuberculosis. In mouse models of TB, bedaquiline has significantly shortened the treatment regimen. A long-acting injectable formulation has been shown to have prolonged bactericidal activity. Bedaquiline inhibits ATP-synthase, and at high concentrations leads to suppression of oxidative phosphorylation. In rat liver mitochondria, bedaquiline suppresses the formation of MPT pores, which typically accompanies the development of tuberculosis. Several analogues of bedaquiline that may improve its bioavailability are also in development.

**References** Sarathy J, Ganapathy U, Zimmerman M, et al. TBAJ-876, a 3,5-dialkoxy-pyridine analogue of bedaquiline, is active against mycobacterium abscessus. *Antimicrob Agents Chemother.* 2020 Mar 24;64(4):e02404-19. PMID: 31964791.

Xu J, Li SY, Almeida D, et al. Contribution of pretomanid to novel regimens containing bedaquiline with either linezolid or moxifloxacin and pyrazinamide in murine models of tuberculosis. *Antimicrob Agents Chemother.* 2019 Apr 25;63(5):e00021-19. PMID: 30833432.

Kaushik A, Ammerman N, Tyagi S, et al. Activity of a long-acting injectable bedaquiline formulation in a paucibacillary mouse model of latent tuberculosis infection. *Antimicrob Agents Chemother.* 2019 Mar 27;63(4):e00007-19. PMID: 30745396.

Belosludtsev K, Belosludtseva N, Talanov E, et al. Effect of bedaquiline on the functions of rat liver mitochondria. *Biochim Biophys Acta Biomembr.* 2019 Jan;1861(1):288-297. PMID: 29920239.

Blaser A, Sutherland H, Tong A, et al. Structure-activity relationships for unit C pyridyl analogues of the tuberculosis drug bedaquiline. *Bioorg Med Chem.* 2019 Apr 1;27(7):1283-1291. PMID: 30792104.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.