



# LKT Laboratories, Inc.

## Bambuterol Hydrochloride

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### Product Information

**Product ID** B0150  
**CAS No.** 81732-46-9  
**Chemical Name** Dimethylcarbamic acid 5-[2-[(1,1-dimethylethyl)-amino]-1-hydroxyethyl]-1,3-phenylene ester hydrochloride

**Synonym** KWD-2183, Bambec

**Formula**  $C_{18}H_{29}N_3O_5 \cdot HCl$

**Formula Wt.** 403.91

**Melting Point** 222-224°C

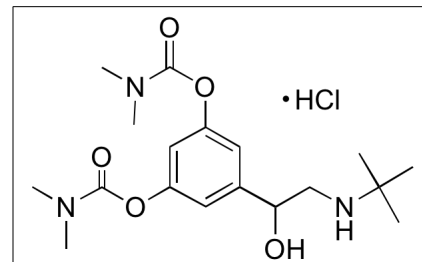
**Purity** ≥98%

**Solubility** Soluble in water (33mg/mL).

**Store Temp** 4°C

**Ship Temp** Ambient

**Description** Bambuterol is a long-acting  $\beta_2$ -adrenergic agonist and inhibitor of butyrylcholinesterase (BChE). Bambuterol is a prodrug of terbutaline and exhibits bronchodilatory and anti-asthma activities.



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size   | List Price |
|------------|--------|------------|
| B0150      | 100 mg | \$77.80    |
| B0150      | 500 mg | \$231.60   |
| B0150      | 1 g    | \$330.60   |
| B0150      | 5 g    | \$1256.20  |

**References** Wu J, Tan Z, Pistozzi M, et al. Rivastigmine-bambuterol hybrids as selective butyrylcholinesterase inhibitors. *Molecules*. 2023 Dec 22;29(1):72. PMID: 38202655.

Mohr F, Zimmermann M, Klein J. Mice heterozygous for AChE are more sensitive to AChE inhibitors but do not respond to BuChE inhibition. *Neuropharmacology*. 2013 Apr;67:37-45. PMID: 23147415.

Bosak A, Gazić I, Vinković V, et al. Stereoselective inhibition of human, mouse, and horse cholinesterases by bambuterol enantiomers. *Chem Biol Interact*. 2008 Sep 25;175(1-3):192-5. PMID: 18582854.

Waldeck B. Beta-adrenoceptor agonists and asthma--100 years of development. *Eur J Pharmacol*. 2002 Jun 7;445(1-2):1-12. PMID: 12065188.

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