



# LKT Laboratories, Inc.

## Bestatin Hydrochloride

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### Product Information

**Product ID** B1874

**CAS No.** 65391-42-6

**Chemical Name** N-[(2S,3R)-3-Amino-2-hydroxy-1-oxo-4-phenylbutyl]-L-leucine hydrochloride

**Synonym** Ubenimex hydrochloride

**Formula**  $C_{16}H_{24}N_2O_4 \cdot HCl$

**Formula Wt.** 344.87

**Melting Point** 216-218°C

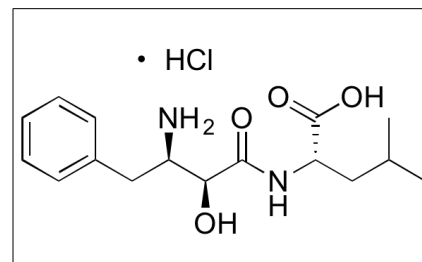
**Purity** ≥98%

**Solubility** Soluble in water (25mg.  
mL).

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Bestatin is a dipeptide inhibitor of aminopeptidases such as aminopeptidase N/CD13. Bestatin displays efficacy in the treatment of lung cancer. This compound exhibits anticancer chemotherapeutic, immunomodulatory, and analgesic activities. Bestatin enhances differentiation of acute promyelocytic leukemia (APL) cells. Additionally, bestatin enhances proliferation of bone marrow macrophage progenitor cells and formation of CFU-GM colonies. This compound also inhibits catabolism of opioid endopeptides. TEST!!!!!!



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
B1874	1 mg	\$44.80
B1874	5 mg	\$73.50
B1874	10 mg	\$137.90
B1874	25 mg	\$262.20

**References** Hitzerd SM, Verbrugge SE, Ossenkoppele G, et al. Positioning of aminopeptidase inhibitors in next generation cancer therapy. *Amino Acids*. 2014 Apr;46(4):793-808. PMID: 24385243.

Qian X, He J, Zhao Y, et al. Inhibition of p38 MAPK Phosphorylation Is Critical for Bestatin to Enhance ATRA-Induced Cell Differentiation in Acute Promyelocytic Leukemia NB4 Cells. *Am J Ther*. 2013 Oct 17. [Epub ahead of print]. PMID: 24141198.

Jia MR, Wei T, Xu WF. The Analgesic Activity of Bestatin as a Potent APN Inhibitor. *Front Neurosci*. 2010 Jun 28;4:50. PMID: 20631848.

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