



Product Information

Product ID U0618

CAS No. 58970-76-6

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

Synonym Bestatin

Formula C₁₆H₂₄N₂O₄

Formula Wt. 308.37

Melting Point 233-236°C

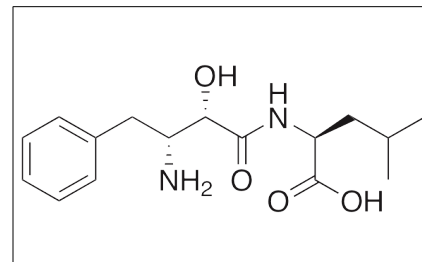
Purity ≥98%

Solubility Soluble in acetic acid, DMSO and methanol. Less soluble in water. Insoluble in ethyl acetate, benzene, hexane and chloroform

Store Temp -20°C

Ship Temp Ambient

Description Ubenimex, also known as 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 promyelotic 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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
U0618	10 mg	\$89.40
U0618	50 mg	\$369.50
U0618	100 mg	\$573.30

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.