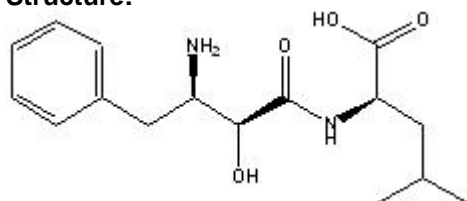


TECHNICAL INFORMATION

Catalog Number: 152844

Bestatin

Structure:



Molecular Formula: C₁₆H₂₄N₂O₄

Molecular Weight: 308.4

CAS # : 58970-76-6

Synonym: [(2S,3R)-3-Amino-2-hydroxy-4-phenylbutanoyl]-Leu; Ubenimex; NK-421;

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

Physical Description: White powder

Solubility: Soluble in methanol, acetic acid, DMSO. Stock solutions of 1 mM (2 mg/6.48 ml) in methanol are stable for approximately 1 month at -20°C. Stock solutions can be diluted to 1:100 (10 uM solution) just before use. Working solutions should be made fresh each day.

Description: A dipeptide antitumor antibiotic.¹ Binds to cell surfaces and reversibly inhibits cell surface aminopeptidases, and specifically aminopeptidase B and leucine aminopeptidase. Shows no inhibition against aminopeptidase A, trypsin, chymotrypsin, elastase, papain, pepsin or thermolysin.⁷ Activates macrophages and T lymphocytes. Has antitumor properties.^{1,9} Effective concentration is typically 1-10 uM.

[Click Here for a list of other protease inhibitors offered by MP Biomedicals and general protease inhibitor information.](#)

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