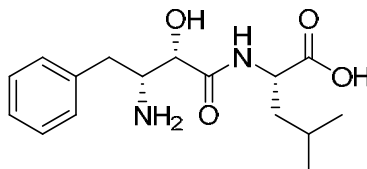


Bestatin

Code: **BIA-B1278**

Pack sizes: **5 mg, 25 mg**



Synonyms : **Ubenamix, Inobestin, NK 421**

Specifications

CAS # : **58970-76-6**
Molecular Formula : **C₁₆H₂₄N₂O₄**
Molecular Weight : **308.4**
Source : ***Streptomyces* sp.**
Appearance : **White solid**
Purity : **> 98.5% by HPLC**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.**

Application Notes

Bestatin is "pseudo"-dipeptide isolated from *Streptomyces olivreticuli* in 1976. Bestatin is potent aminopeptidase B inhibitor with no carboxypeptidase activity. Bestatin acts as an immunomodulator by activation of macrophages and T lymphocytes. Bestatin also exhibits good antitumor activity and is under clinical investigation.

References

1. Bestatin, an inhibitor of aminopeptidase B, produced by *actinomycetes*. Umezawa H. et al. J. Antibiot. 1976, 29, 97.
2. The structure of bestatin. Suda H. et al. J. Antibio. 1976, 29, 100.
3. Low-molecular-weight enzyme inhibitors of microbial origin. Umezawa H. Ann. Rev. Microbiol. 1982, 36, 75.