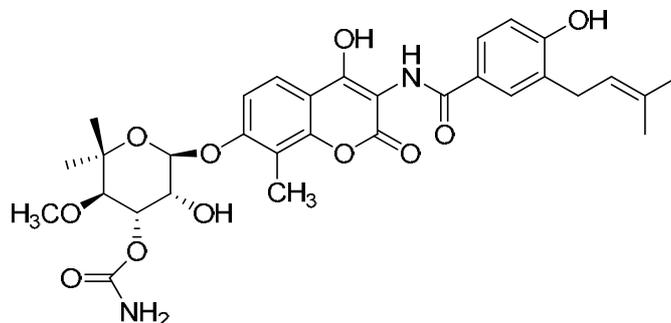


Novobiocin

Code: **BIA-N1306**

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



Synonyms : **Albamycin, Vulcamycin, Antibiotic PA 93, Antibiotic WS 6629, Griseoflavin, Antibiotic S 800.**

Specifications

CAS # : **303-81-1**
Molecular Formula : **C₃₁H₃₆N₂O₁₁**
Molecular Weight : **612.6**
Source : ***Streptomyces* sp.**
Appearance : **Pale yellow solid**
Purity : **>95%**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Novobiocin is an aminocoumarin antibiotic isolated from a number of species of *Streptomyces*. Novobiocin exhibits broad spectrum Gram +ve activity and was used clinically. Novobiocin is a potent inhibitor of bacterial DNA gyrase and acts as a competitive inhibitor of the ATPase reaction catalysed by GyrB.

References

1. The structure of novobiocin. Hinman J.W. et al. J.A.C.S. 1957, 79, 3789.
2. Novobiocin II. Structure of novobiocin. Shunk C.H. et al. JACS 1956, 78, 1770.
3. A novel homogenous assay for topoisomerase II action and inhibition. Jahnz M. et al. Chem. Biochem. 2005, 6, 920.
4. Probing the binding of the coumarin drugs using peptide fragments of DNA gyrase B protein. Garrido S. S. J. Pept. Res. 2005, 65, 502.
5. Investigations of the biosynthesis of novobiocin. Calvert R. T. et al. J. Pharm. Pharmacol. 1972, 24, 972.