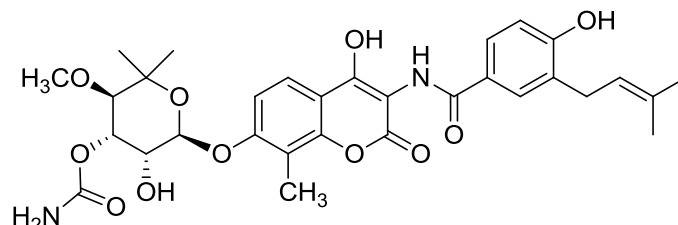


Novobiocin

Code No.: **BIA-N1306**

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



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

Specifications

CAS #	: 303-81-1
Molecular Formula	: C₃₁H₃₆N₂O₁₁
Molecular Weight	: 612.6
Source	: <i>Streptomyces</i> sp.
Appearance	: Pale yellow solid
Purity	: >95% by HPLC
Long Term 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 positive antibiotic activity and was used clinically. Novobiocin is a potent inhibitor of bacterial DNA gyrase and a competitive inhibitor of the ATPase reaction catalysed by GyrB.

References

1. The structure of novobiocin. Hinman J. W. et al., JACS 1957, 79, 3789.
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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.