

Novobiocin (Sodium)

Catalog No: tcsc2531



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

1476-53-5

Formula:

$C_{31}H_{35}N_2NaO_{11}$

Pathway:

Anti-infection;Autophagy

Target:

Bacterial;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 30 mg/mL (47.27 mM)

Alternative Names:

Albamycin;Cathomycin

Observed Molecular Weight:

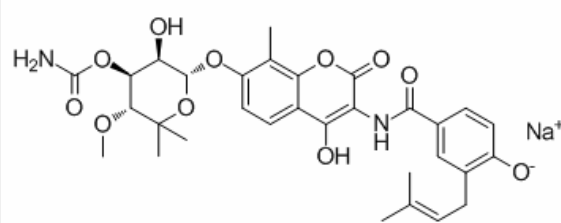
634.61

Product Description

Novobiocin Sodium is an antibiotic compound derived from *Streptomyces niveus*.

Target: Antibacterial

Novobiocin, also known as albamycin or cathomycin, is an aminocoumarin antibiotic that is produced by the actinomycete *Streptomyces niveus*, which has recently been identified as a subjective synonym for *S. spheroides* a member of the order Actinobacteria. Other aminocoumarin antibiotics include clorobiocin and coumermycin A1. The molecular basis of action of novobiocin, and other related drugs clorobiocin and coumermycin A1 has been examined. Aminocoumarins are very potent inhibitors of bacterial DNA gyrase and work by targeting the GyrB subunit of the enzyme involved in energy transduction. Novobiocin as well as the other aminocoumarin antibiotics act as competitive inhibitors of the ATPase reaction catalysed by GyrB. The potency of novobiocin is considerably higher than that of the fluoroquinolones that also target DNA gyrase, but at a different site on the enzyme. The GyrA subunit is involved in the DNA nicking and ligation activity [1-4].



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