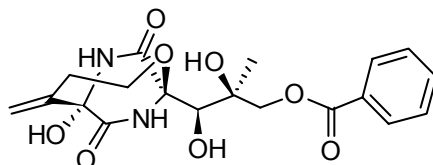


Bicyclomycin benzoate

Code: **BIA-B1318**

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



Synonyms : **Bicozamycin benzoate**

Specifications

CAS # : **38129-37-2**
Molecular Formula : **C₁₉H₂₂N₂O₈**
Molecular Weight : **406.4**
Source : ***Streptomyces* sp**
Appearance : **White solid**
Purity : **>99%**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Partial water solubility.**

Application Notes

Bicyclomycin is a polar metabolite first isolated from *Streptomyces sapporonensis* in 1972 with activity against Gram negative bacteria. The selective Gram negative profile of bicyclomycin is rare among *Streptomyces* metabolites, and in an effort to overcome its poor *in vivo* absorption, the benzoate ester was prepared by reaction with the more exposed primary alcohol. Bicyclomycin benzoate has limited use as a veterinary antibiotic.

References

1. Bicyclomycin, a new antibiotic I. Taxonomy, isolation and characterization. Miyoshi T. *et al.* J. Antibiot. **1972**, 25, 569.
2. Bicyclomycin, a new antibiotic II. Structural elucidation and acyl derivatives. Kamiya T. *et al.* J. Antibiot. **1972**, 25, 576.