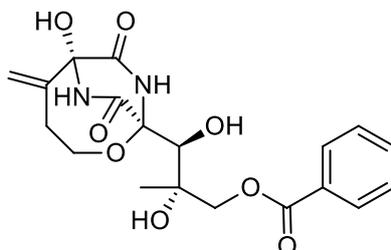


Bicyclomycin benzoate

Code No.: **BIA-B1318**

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



Synonyms : Bicozamycin benzoate, FR 2054

Specifications

CAS #	: 37134-40-0
Molecular Formula	: C₁₉H₂₂N₂O₈
Molecular Weight	: 406.4
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited 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.