PRODUCT DATA SHEET

Bicyclomycin benzoate

Synonyms: Bicozamycin benzoate, FR 2054

Specifications

- CAS #: 37134-40-0
- Molecular Formula: C_{19}H_{22}N_{2}O_{8}
- Molecular Weight: 406.4
- Source: Semi-synthetic
- Appearance: White solid
- Purity: >99% 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