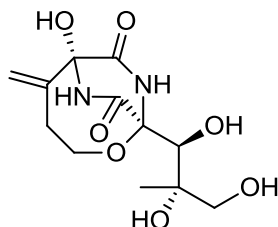


## Bicyclomycin

Code No.: **BIA-B1367**

Pack sizes: **1 mg, 5 mg**



Synonyms : Bicozamycin, Aizumycin, Bacteron, CGP 3543E, WS4545, 5879

### Specifications

CAS #	: 38129-37-2
Molecular Formula	: C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> O <sub>7</sub>
Molecular Weight	: 302.3
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

### Application Notes

Bicyclomycin is a polar metabolite first isolated from *Streptomyces sapporonensis* in 1972. The selective Gram negative profile of bicyclomycin is rare among *Streptomyces* metabolites. The primary site of action for bicyclomycin is thought to be the rho transcription termination factor.

### 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.
3. Transcription termination factor rho: The site of bicyclomycin inhibition in *Escherichia*. Zwiefka A. et al., Biochemistry 1993, 32, 3564.