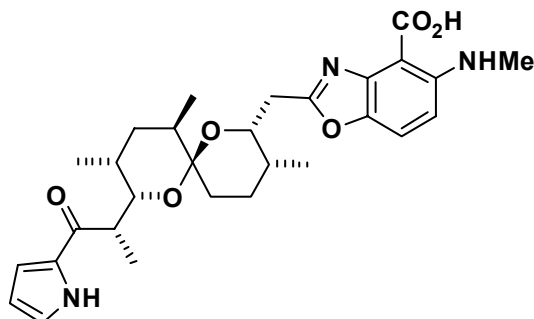


Calcimycin

Code: **BIA-C1236**

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



Synonyms : **Antibiotic A 23187, Calimycin**

Specifications

CAS # : **52665-69-7**
Molecular Formula : **C₂₉H₃₇N₃O₆**
Molecular Weight : **523.6**
Source : ***Streptomyces chartreusis***
Appearance : **White powder**
Purity : **> 99% by HPLC**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Calcimycin is a potent calcium ionophore isolated from *Streptomyces chartreusis* in 1974. Calcimycin is a spiroketal substituted by pyrrollic and benzoxazolyl groups which afford its high affinity and selectivity for calcium. Calimycin exhibits broad biological activity against bacteria, fungi and protozoa. It has found wide application as a research tool for calcium regulated cellular events.

References

1. Structure of A23187, a divalent cation ionophore. Chaney M. O. et al. JACS 1974, 96, 1932.
2. A23187: a divalent cation ionophore. Reed P. W. & Lardy H. A. J. Biol. Chem. 1972, 247, 6970.
3. Biological applications of ionophores. Pressman B. C. et al. Ann. Rev. Biochem. 1976, 45, 501.