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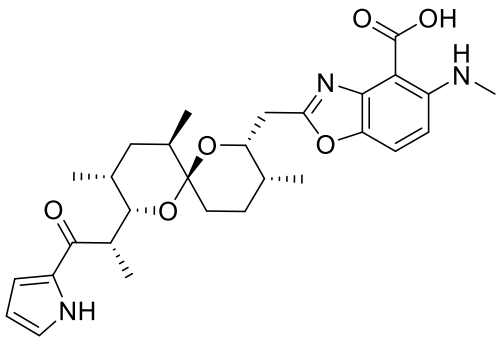
PRODUCT DATA SHEET

Calcimycin

Code No.: **BIA-C1236**

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



Synonyms : A 23187, Calimycin

Specifications

CAS #	:	**52665-69-7**
Molecular Formula	:	**$C_{29}H_{37}N_3O_6$**
Molecular Weight	:	**523.6**
Source	:	***Streptomyces chartreusis***
Appearance	:	**White powder**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO. Poor water solubility.**

Application Notes

Calcimycin is a potent calcium ionophore isolated from Streptomyces chartreusis in 1974. Calcimycin is a spiroketal substituted by pyrollic and benzoxazolyl groups which afford its high affinity and selectivity for calcium. Calcimycin 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.

For in vitro laboratory use only. Not for human or animal use.

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com