

Product Name: Calcimycin

Product Number: C160

CAS Number: 52665-69-7

Molecular Formula: $C_{29}H_{37}N_3O_6$

Molecular Weight: 523.6

Appearance: White powder

Storage Conditions: -20°C

Description: 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. Calcimycin exhibits broad biological activity against bacteria, fungi and protozoa. It has found wide application as a research tool for calcium-regulated cellular events.

Calcimycin is soluble in ethanol, methanol, DMF and DMSO.

References: Structure of A23187, a divalent cation ionophore. Chaney M. O. et al. JACS 1974, 96, 1932.

A23187: a divalent cation ionophore. Reed P. W. & Lardy H. A. J. Biol. Chem. 1972, 247, 6970.

Biological applications of ionophores. Pressman B. C. et al. Ann. Rev. Biochem. 1976, 45, 501.