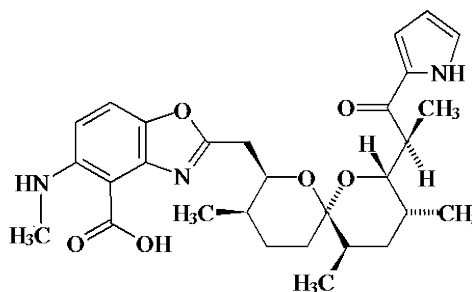


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: **A-23187 Free Acid** (also known as Calcimycin or Calcium Ionophore III)**CATALOGUE #:** **59001****MOLECULAR INFORMATION:** C₂₉H₃₇N₃O₆
Mwt: 523.6
[52665-69-7]**PROPERTIES:****Color & Form** White solid
Purity ≥ 98% by TLC
Solubility Soluble in DMSO or EtOH**STORAGE AND HANDLING:**

Store at 4 °C and protect from light, especially when in solution.

APPLICATION:

A-23187 is a calcium ionophore that rapidly equilibrates intracellular and extracellular calcium concentrations. It is commonly used for *in situ* calibrations of fluorescent calcium indicators. The ionophore allows Mn²⁺ to enter the cells and quench intracellular fluorescence of calcium indicators.

Ref: 1) Suzuki, K. et al. *Anal. Chem.* **61**, 382 (1989); 2) Caron-Leslie, L.A., et al. *FASEB J.* **8**, 639 (1994); 3) *Merck Index* **12**, 1678; 4) Saunders, M.J., et al. *Science* **217**, 943 (1982).

RTECS NUMBER: DM4676000**TOXICITY:** LD50: 9.2 mg/kg, intraper, mouse; LD50: 4.5 mg/kg, intrav, mouse.**FIRST AID:**

Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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