



LKT Laboratories, Inc.

Calcimycin

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Product Information

Product ID C0246

CAS No. 52665-69-7

Chemical Name 5-(Methylamino)-2-[[[(2R,3R,6S,8S,9R,11R)-3,9,11-trimethyl-8-[[[(1S)-1-methyl-2-oxo-2-(1H-pyrrol-2-yl)-ethyl]-1,7-dioxaspiro[5.5]undec-2-yl]methyl]-4-benzoxazolecarboxylic acid

Synonym Antibiotic A-23187, A-23187 free acid

Formula C₂₉H₃₇N₃O₆

Formula Wt. 523.62

Melting Point 181-182 °C

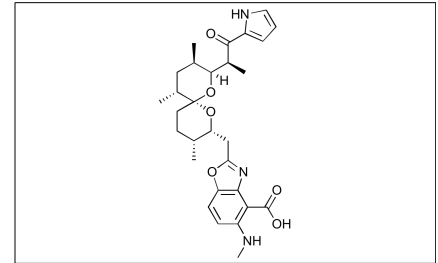
Purity ≥98%

Solubility Soluble in ethyl acetate, chloroform, methanol or DMSO. Slightly soluble in water.

Store Temp -20 °C

Ship Temp Ambient

Description Calcimycin is a pyrrole polyether antibiotic that exhibits antibacterial, antifungal, pro-inflammatory, and pro-allergic activities. Calcimycin is a divalent cation ionophore that increases intracellular Ca²⁺ levels, uncouples oxidative phosphorylation, and inhibits mitochondrial ATPase activity. Calcimycin is especially active against gram positive bacteria. In mast cells, calcimycin activates IKK2 and NF-κB and induces degranulation and pro-inflammatory cytokine production.



Bulk quantities available upon request

Product ID	Size
C0246	1 mg
C0246	5 mg
C0246	10 mg

References Hosokawa J, Suzuki K, Nakagomi D, et al. Role of calcium ionophore A23187-induced activation of IκB kinase 2 in mast cells. *Int Arch Allergy Immunol.* 2013;161 Suppl 2:37-43. PMID: 23711852.

Abbott BJ, Fukuda DS, Dorman DE, et al. Microbial transformation of A23187, a divalent cation ionophore antibiotic. *Antimicrob Agents Chemother.* 1979 Dec;16(6):808-12. PMID: 119484.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.