

Catalog	Unit
TBI2284 - 5MG	5 mg
TBI2284 - 25MG	25 mg

Product Details

Formal 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.

Alternate Name: Calcimycin

Molecular Formula: C₂₉H₃₇N₃O₆.

Formula Weight: 523.62.

CAS Number: 52665-69-7

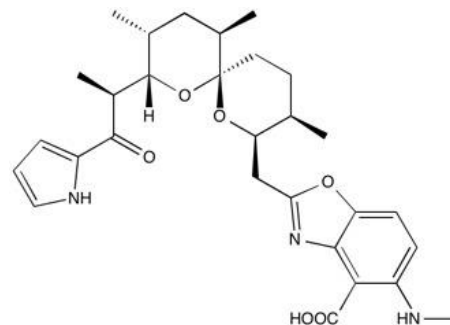
Purity: ≥98%

Formulation: Powder.

Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 5 mg/ml).

Storage: -20°C.

Stability: ≥ 2 years.



Applications

Ca²⁺ Ionophore.

Functions

Antibiotic A-23187 is a highly selective divalent cation ionophore, commonly used to increase intracellular Ca²⁺ levels in intact cells (though it is most selective for Mn²⁺). It uncouples oxidative phosphorylation. In addition, A23187 inhibits ATPase activity.

Application Procedures

A-23187 can be first dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

Relative Products

TBI1092	AICAR, AMPK activator
TBI2069	Cytochalasin B
TBI2073	Forskolin, Adenylate cyclase activator
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI1029	Dorsomorphin, AMPK inhibitor
TBI1368	Pepstatin, Aspartic protease inhibitor
TBI1060	Imatinib, Bromodomain inhibitor
TBI1584	JQ1+, Bromodomain inhibitor
TBI1131	Cilostazol, PDE3A Inhibitor

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