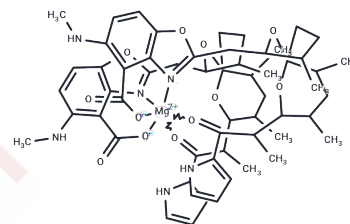


## Calcimycin hemimagnesium

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 72124-77-7  |
| Formula:          | C <sub>58</sub> H <sub>72</sub> MgN <sub>6</sub> O <sub>12</sub>  |
| Molecular Weight: | 1069.53   |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | Calcimycin (A-23187) hemimagnesium, an antibiotic and divalent cation ionophore (such as calcium and magnesium), serves various biological roles. It triggers Ca <sup>2+</sup> -dependent cell death by elevating intracellular calcium levels and suppresses the growth of Gram-positive bacteria and certain fungi. Additionally, this compound hinders ATPase activity and uncouples oxidative phosphorylation (OXPHOS) in mammalian cells, ultimately leading to apoptosis [1] [2] [3] [4]. |
| Targets(IC50) | Apoptosis,Others,OXPHOS,Antibacterial,Autophagy,Antifungal  |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.935 mL  | 4.675 mL  | 9.3499 mL |
| 5 mM  | 0.187 mL  | 0.935 mL  | 1.870 mL  |
| 10 mM | 0.0935 mL | 0.4675 mL | 0.935 mL  |
| 50 mM | 0.0187 mL | 0.0935 mL | 0.187 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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