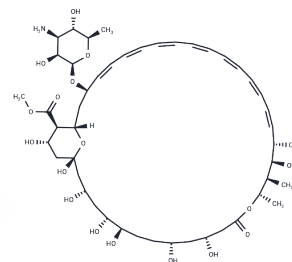


## Amphotericin B methyl ester

### Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 36148-89-7  |
| Formula:          | C <sub>48</sub> H <sub>75</sub> NO <sub>17</sub>  |
| Molecular Weight: | 938.118   |
| 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   | Amphotericin B methyl ester, a derivative of the antibiotic Amphotericin B, is a cholesterol-binding compound with significant antifungal activity. It disrupts HIV-1 particle production and potently inhibits HIV-1 replication. |
| Targets(IC50) | Others,HIV Protease,Antifungal   |
| In vitro      | Amphotericin B methyl ester suppresses the production of HIV-1 particles without notably impacting the binding of Gag to the plasma membrane, its association with lipid rafts, or the multimerization of Gag [1].                 |

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.066 mL  | 5.3298 mL | 10.6596 mL |
| 5 mM  | 0.2132 mL | 1.066 mL  | 2.1319 mL  |
| 10 mM | 0.1066 mL | 0.533 mL  | 1.066 mL   |
| 50 mM | 0.0213 mL | 0.1066 mL | 0.2132 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.

### Reference

- Waheed AA, et al. Inhibition of human immunodeficiency virus type 1 assembly and release by the cholesterol-binding compound amphotericin B methyl ester: evidence for Vpu dependence. *J Virol.* 2008 Oct;82(19):9776-81.
- Keim GR, et al. Comparative toxicological studies of amphotericin B methyl ester and amphotericin B in mice, rats, and dogs. *ntimicrob Agents Chemother.* 1976 Oct;10(4):687-90.

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