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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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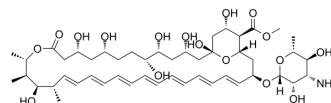
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Amphotericin B methyl ester

| | |
|---------------------------|--|
| Cat. No.: | HY-135327 |
| CAS No.: | 36148-89-7 |
| Molecular Formula: | C ₄₈ H ₇₅ NO ₁₇ |
| Molecular Weight: | 938.11 |
| Target: | HIV; Fungal |
| Pathway: | Anti-infection |
| Storage: | -20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (53.30 mM; Need ultrasonic)

| Concentration | Mass | | | |
|---------------|-----------|-----------|------------|--|
| | 1 mg | 5 mg | 10 mg | |
| 1 mM | 1.0660 mL | 5.3299 mL | 10.6597 mL | |
| 5 mM | 0.2132 mL | 1.0660 mL | 2.1319 mL | |
| 10 mM | 0.1066 mL | 0.5330 mL | 1.0660 mL | |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Amphotericin B methyl ester is the methyl ester derivative of the polyene antibiotic Amphotericin B (A634250). Amphotericin B methyl ester is the cholesterol-binding compound possesses significant antifungal activity. Amphotericin B methyl ester disrupts HIV-1 particle production and potently inhibits HIV-1 replication^{[1][2]}.

In Vitro

Amphotericin B methyl ester inhibits HIV-1 particle production with no significant effect on Gag binding to the plasma membrane, Gag association with lipid rafts, or Gag multimerization^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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