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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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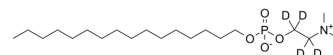
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Miltefosine-d₄

Cat. No.:	HY-13685S1
Molecular Formula:	C ₂₁ H ₄₂ D ₄ NO ₄ P
Molecular Weight:	411.59
Target:	Isotope-Labeled Compounds; Akt; Parasite; HIV
Pathway:	Others; PI3K/Akt/mTOR; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Miltefosine-d₄ (HePC-d₄) is deuterium labeled Miltefosine. Miltefosine is a broad spectrum antimicrobial, anti-leishmanial, phospholipid agent acting by inhibiting the PI3K/Akt activity^{[1][2][3][4]}. Miltefosine is an inhibitor of CTP-phosphocholine cytidyltransferase (CCT)^{[5][6]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Uberall F, et al. Hexadecylphosphocholine inhibits inositol phosphate formation and protein kinase C activity. *Cancer Res*. 1991 Feb 1;51(3):807-12.
- [3]. Eissa MM, et al. Miltefosine Lipid Nanocapsules for Single Dose Oral Treatment of Schistosomiasis Mansoni: A Preclinical Study. *PLoS One*. 2015 Nov 17;10(11):e0141788
- [4]. Chugh P, et al. Akt inhibitors as an HIV-1 infected macrophage-specific anti-viral therapy. *Retrovirology*. 2008 Jan 31;5:11
- [5]. de Freitas-Junior PR, et al. Effects of miltefosine on the proliferation, ultrastructure, and phospholipid composition of *Angomonas deanei*, a trypanosomatid protozoan that harbors a symbiotic bacterium. *FEMS Microbiol Lett*. 2012 Aug;333(2):129-37.
- [6]. Bhatt AP, et al. Dual inhibition of PI3K and mTOR inhibits autocrine and paracrine proliferative loops in PI3K/Akt/mTOR-addicted lymphomas. *Blood*. 2010 Jun 3;115(22):4455-63.

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

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