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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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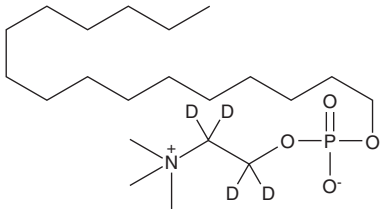
PRODUCT INFORMATION

Miltefosine-d_4

Item No. 34707

Formal Name:	2-[[(hexadecyloxy)hydroxyphosphinyl]oxy]-N,N,N-trimethyl-ethanaminium-1,1,2,2-d_4, inner salt
Synonyms:	Hexadecylphosphocholine-d_4, HPC-d_4
MF:	$C_{21}H_{42}D_4NO_4P$
FW:	411.6
Chemical Purity:	≥90% (Miltefosine)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Miltefosine-d_4 is intended for use as an internal standard for the quantification of miltefosine (Item No. 63280) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Miltefosine-d_4 is supplied as a solid. A stock solution may be made by dissolving the miltefosine-d_4 in the solvent of choice, which should be purged with an inert gas. Miltefosine-d_4 is soluble in methanol.

Description

Miltefosine is an inhibitor of CTP:phosphocholine cytidylyltransferase (CCT).[1] It inhibits liposome-induced CCT activity in MDCK cell homogenates when used at concentrations ranging from 10 to 50 µM, as well as induces translocation of CCT from the cell membrane to the cytosol in MDCK cells. Miltefosine inhibits phosphatidylcholine biosynthesis induced by phorbol 12-myristate 13-acetate (PMA; Item No. 10008014) in MDCK and HeLa cells when used at a concentration of 50 µM.[2] It inhibits phosphatidylserine-activated PKC (IC_{50} = 62 µM), as well as PMA-induced morphological changes and proliferation of MDCK cells.[3] Miltefosine is active against clinical isolate promastigotes of *L. infantum* (EC_{50}s = 5-25 µM).[4] Topical application of miltefosine (0.5%) completely eradicates *L. amazonensis* and induces re-epithelialization of lesions in a mouse model of cutaneous leishmaniasis.[5] Formulations containing miltefosine have been used in the treatment of leishmaniasis and various free-living amoeba infections.

References

1. Geilen, C.C., Wieder, T., and Reutter, W. *J. Biol. Chem.* **267(10)**, 6719-6724 (1992).
2. Wieder, T., Geilen, C.C., and Reutter, W. *Biochem. J.* **291(Pt. 2)**, 561-567 (1993).
3. Geilen, C.C., Haase, R., Buchner, K., *et al. Eur. J. Cancer* **27(12)**, 1650-1653 (1991).
4. Espada, C.R., de Castro Levatti, E.V., Boité, M.C., *et al. Microorganisms* **9(6)**, 1228 (2021).
5. Peralta, M.F., Usseglio, N.A., Bracamonte, M.E., *et al. Drug Deliv. Transl. Res.* **12(1)**, 180-196 (2022).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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