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Produktinformation

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- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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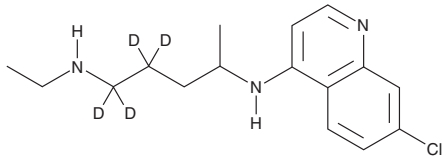
PRODUCT INFORMATION

Desethylchloroquine-d_4

Item No. 30907

CAS Registry No.:	1189971-72-9
Formal Name:	N^4-(7-chloro-4-quinolinyl)-N^1-ethyl-1,4-pentane-1,1,2,2-d_4-diamine
Synonym:	N-Desethylchloroquine-d_4
MF:	$C_{16}H_{18}ClD_4N_3$
FW:	295.8
Chemical Purity:	≥95% (Desethylchloroquine)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

Desethylchloroquine-d_4 is intended for use as an internal standard for the quantification of desethylchloroquine (Item No. 30113) 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).

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

Description

Desethylchloroquine is a major active metabolite of chloroquine (Item No. 14194).[1] Desethylchloroquine is formed when chloroquine undergoes dealkylation, primarily by the cytochrome P450 (CYP) isoforms CYP2C8 and CYP3A4 and to a lesser extent by CYP2D6. It inhibits the growth of the *P. falciparum* strain LA136 *in vitro* (IC_{50} = 9.9 ng/ml).[2]

References

1. Projean, D., Baune, B., Farinotti, R., *et al.* In vitro metabolism of chloroquine: Identification of CYP2C8, CYP3A4, and CYP2D6 as the main isoforms catalyzing N-desethylchloroquine formation. *Drug Metab. Dispos.* **31(6)**, 748-754 (2003).
2. Aderounmu, F.A. In vitro assessment of the antimalarial activity of chloroquine and its major metabolites. *Ann. Trop. Med. Parasitol.* **78(6)**, 581-585 (1984).

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