

Product Data Sheet

Product Name: Desethyl Hydroxychloroquine-d₄

Cat. No.: GC47193

Chemical Properties

Cas. No. 1854126-47-8

SMILES C1C=CC2=C(C=C1)C(NC(C)CCCNC([2H])([2H])C([2H])([2H])O)=CC=N2

Formula C₁₆H₁₈ClD₄N₃O

M.Wt 311.8

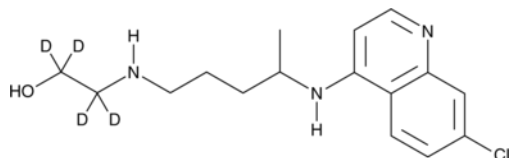
Solubility DMF: Soluble, DMSO: Soluble, Methanol: Soluble

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Desethyl hydroxychloroquine-d₄ is intended for use as an internal standard for the quantification of desethyl hydroxychloroquine by GC- or LC-MS. Desethyl hydroxychloroquine is an active metabolite of hydroxychloroquine.¹ It is formed *via* the desethylation of hydroxychloroquine in the liver, a process mediated by the cytochrome P450 (CYP) isoforms CYP2D6, CYP3A4, CYP3A5, and CYP2C8.

1. Charlier, B., Pingeon, M., Dal Piaz, F., et al. Development of a novel ion-pairing HPLC-FL method for the separation and quantification of hydroxychloroquine and its metabolites in whole blood. *Biomed. Chromatogr.* 32(8)e4258(2018)

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

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