

Product Data Sheet

Product Name: Fluconazole-d₄

Cat. No.: GC47358

Chemical Properties

Cas. No. 1124197-58-5

SMILES FC1=CC(F)=C(C(C([2H])([2H])N2C=NC=N2)(O)C([2H])([2H])N3C=NC=N3)C=C1

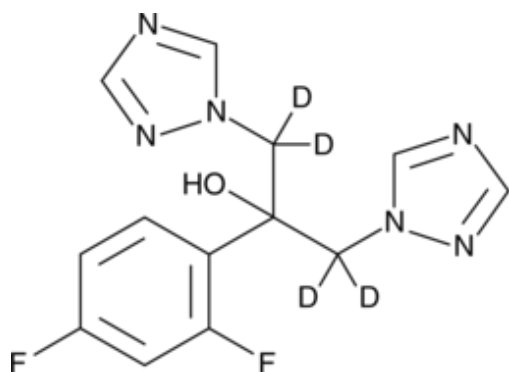
Formula C₁₃H₈D₄F₂N₆O M.Wt 310.3

Solubility DMSO : ≥ 100 mg/mL (322.27 mM); Storage Store at -20°C
H₂O : 2 mg/mL (6.45 mM; Need ultrasonic)

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

Fluconazole-d₄ is intended for use as an internal standard for the quantification of fluconazole by GC- or LC-MS. Fluconazole is a triazole antifungal agent that is effective against most *Candida* strains.¹ *In vivo*, fluconazole at 0.5-100 mg/kg demonstrates protective activity in various experimental animal models of systemic fungal diseases including aspergillosis, blastomycosis, candidiasis, coccidioidomycosis, cryptococcosis, and histoplasmosis.²

1. Herbrecht, R., Nivoix, Y., Fohrer, C., et al. Management of systemic fungal infections: Alternatives to

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

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itraconazole J. Antimicrob. Chemother. 56(Suppl 1):i39-i48 (2005) 2. Saag, M.S., and Dismukes, W.E. Azole antifungal agents: Emphasis on new triazoles Antimicrobial Agents and Chemotherapy 32(1):1-8 (1988)

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