

Product Data Sheet

Product Name: Miconazole-d5

Cat. No.: GC47673

Chemical Properties

Cas. No. 1216653-50-7

SMILES C1C=CC=C(C([2H])([2H])OC([2H])(C2=CC=C(Cl)C=C2Cl)C([2H])(N3C=CN=C3)[2H])C(Cl)=C1

Formula C₁₈H₉Cl₄D₅N₂O

M.Wt 421.2

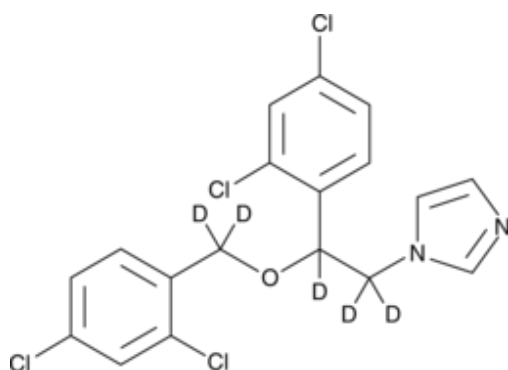
Solubility Acetonitrile: soluble, DMSO: Soluble, Methanol: Soluble

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

Miconazole-d₅ is intended for use as an internal standard for the quantification of miconazole by GC- or LC-MS. Miconazole is an imidazole antifungal.¹ It is active against *C. parapsilosis*, *C. pseudotropicalis*, *C. albicans*, *C. neoformans*, *C. tropicalis*, and *C. guilliermondii* (MICs = <0.1-10 µg/ml). It is also active against various *Trichophyton* species, *A. fumigatus*, *A. niger*, *B. brasiliensis*, and *B. dermatitidis*. Miconazole (160 mg/kg) prevents infection with *T. mentagrophytes* and *M. canis* in mice. It also reduces lesion size in a guinea pig model of *C. albicans* infection. Formulations containing miconazole have been used in the treatment of various fungal infections.

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

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1.Sawyer, P.R., Brogden, R.N., Pinder, R.M., et al.Miconazole: A review of its antifungal activity and therapeutic efficacyDrugs9(6)406-423(1975)

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