
Product Data Sheet

Product Name: Posaconazole-D5

Cat. No.: GC36950

Chemical Properties

Cas. No. 1217785-83-5

SMILES FC1=CC=C([C@@]2(CN3C=NC=N3)C[C@H](COC4=CC=C(N5CCN(C6=CC=C(N7C=NN([C@@H](C([2H]))([2H])C([2H]))([2H])[2H])[C@H](C)O)C7=O)C=C6)CC5)C=C4)CO2)C(F)=C1

Formula C₃₇H₃₇D₅F₂N₈O₄ M.Wt 705.81

Solubility DMSO : 18.75 mg/mL (26.57 mM; ultrasonic and warming and heat to 60°C) 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

Posaconazole-d₅ is intended for use as an internal standard for the quantification of posaconazole by GC- or LC-MS. Posaconazole is a broad-spectrum triazole antifungal agent active against various yeasts and molds, including *Aspergillus*, *Candida*, *Fusarium*, and *Zygomycetes*.¹ Posaconazole inhibits the growth of fungi by inhibiting the lanosterol 14 α -demethylase enzyme (IC₅₀s = 7-200 nM), which results in a disruption in the synthesis of ergosterol , a key sterol necessary for fungal cell membrane integrity and for the function of certain membrane-bound proteins.²

1.Herbrecht, R., Nivoix, Y., Fohrer, C., et al.Management of systemic fungal infections: Alternatives to itraconazole]. *Antimicrob. Chemother.*56(Suppl 1)i39-i48(2005)

2.Munayyer, H.K., Mann, P.A., Chau, A.S., et al.Posaconazole is a potent inhibitor of sterol 14 α -demethylation in yeasts and molds*Antimicrob. Agents Chemother.*48(10)3690-3696(2004)

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

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