

Produktinformation



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PRODUCT INFORMATION



Posaconazole-d₅

Item No. 22376

Formal Name: 4-(4-(4-(4-(((3R,5R)-5-((1H-

> 1,2,4-triazol-1-yl)methyl)-5-(2,4difluorophenyl)tetrahydrofuran-3-yl) methoxy)phenyl)piperazin-1-yl)

phenyl)-2-((2S,3S)-2-hydroxypentan-3yl-4,4,5,5,5-d₅)-2,4-dihydro-3H-1,2,4-

triazol-3-one

POS-d₅ Synonym:

MF: $C_{37}H_{37}D_5F_2N_8O_4$

FW: 705.8

Chemical Purity: ≥98% (Posaconazole)

Deuterium

Incorporation: \geq 99% deuterated forms (d₁-d₅); \leq 1% d₀

Supplied as: A solid -20°C Storage: ≥2 years Stability:

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

Laboratory Procedures

Posaconazole-d_s is intended for use as an internal standard for the quantification of posaconazole (Item No. 14737) 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).

Posaconazole- d_5 is supplied as a solid. A stock solution may be made by dissolving the posaconazole- d_5 in the solvent of choice, which should be purged with an inert gas. Posaconazole- d_5 is soluble in the organic solvent acetonitrile.

Description

Posaconazole is a broad-spectrum triazole antifungal agent active against various yeasts and molds, including Aspergillus, Candida, Fusarium, and Zygomycetes. Posaconazole inhibits the growth of fungi by inhibiting the lanosterol 14α -demethylase enzyme (IC₅₀s = 7-200 nM), which results in a disruption in the synthesis of ergosterol (Item No. 19850), a key sterol necessary for fungal cell membrane integrity and for the function of certain membrane-bound proteins.²

References

- 1. Herbrecht, R., Nivoix, Y., Fohrer, C., et al. Management of systemic fungal infections: Alternatives to itraconazole. J. 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 14α -demethylation in yeasts and molds. Antimicrob. Agents Chemother. 48(10), 3690-3696 (2004).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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