PRODUCT INFORMATION



PF-1163B

Item No. 22066

CAS Registry No.: 258871-60-2

Formal Name: 3S-[[4-(2-hydroxyethoxy)phenyl]

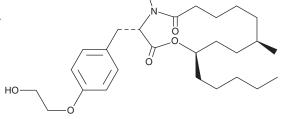
> methyl]-4,10-dimethyl-13Rpentyl-1-oxa-4-azacyclotridecane-

2,5-dione

MF: $C_{27}H_{43}NO_{5}$ FW: 461.6 **Purity:** ≥95% Supplied as: An oil Storage: -20°C Stability: ≥4 years

Item Origin: Fungus/Unidentified sp.

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



Laboratory Procedures

PF-1163B is supplied as an oil. A stock solution may be made by dissolving the PF-1163B in the solvent of choice, which should be purged with an inert gas. PF-1163B is soluble in acetonitrile.

Description

PF-1163B is a depsipeptide antifungal isolated from Penicillium that inhibits ergosterol (ERG) synthesis $(IC_{50} = 34 \text{ ng/ml})^{1.2}$ It inhibits growth of C. albicans (MIC = 32 µg/ml) but not of other Candida strains, A. fumigatus, or HepG2 cells.² It acts synergistically with fluconazole (Item No. 11594) to reduce growth of azole-resistant C. albicans (MIC = 2 and 0.0016 μg/ml alone and in combination, respectively).³ PF-1163B is a hydroxy form of PF-1163A (Item No. 22065).

References

- 1. Nose, H., Seki, A., Yaquchi, T., et al. PF1163A and B, new antifungal antibiotics produced by Penicillium sp. I. Taxonomy of producing strain, fermentation, isolation and biological activities. J. Antibiot. (Tokyo) 53(1), 33-37 (2000).
- 2. Sasaki, T., Nose, H., Hosoya, A., et al. PF1163A and B, new antifungal antibiotics produced by Penicillium sp. II. Physico-chemical properties and structure elucidation. J. Antibiot. (Tokyo) 53(1), 38-44 (2000).
- Okabe, M., Sugita, T., Kinoshita, K., et al. Macrolides from a marine-derived fungus, Penicillium meleagrinum var. viridiflavum, showing synergistic effects with Fluconazole against azole-resistant Candida albicans. J.Nat. Prod. 79(4), 1208-1212 (2016).

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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