

Product Data Sheet

Product Name: PF-1163A

Cat. No.: GC44609

Chemical Properties

Cas. No. 258871-59-9

SMILES O=C(N(C)[C@H]1CC2=CC=C(OCCO)C=C2)CCCC[C@@H](C)CC[C@@H](C[C@@H](O)CCC)OC1=O

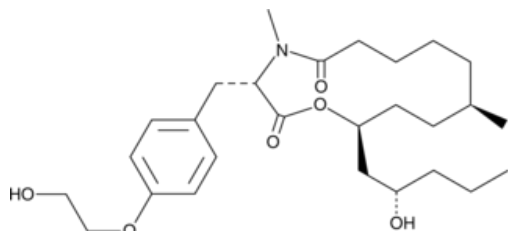
Formula C₂₇H₄₃NO₆ M.Wt 477.6

Solubility DMF: soluble, DMSO: soluble, Ethanol: 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

PF-1163A is a depsipeptide antifungal isolated from *Penicillium* that inhibits ergosterol synthesis (IC₅₀ = 12 ng/ml). In *S. cerevisiae* transfected with ERG biosynthesis genes, PF-1163 inhibits ERG25p, a C-4 methyl oxidase in the ERG biosynthetic pathway, with a MIC value of 12.5 µg/ml, while a strain overexpressing ERG25p is resistant. It inhibits growth of *C. albicans* (MIC = 8 µg/ml) but not of other *Candida* strains, *A. fumigatus*, or HepG2 cells. It also acts synergistically with fluconazole to reduce growth of azole-resistant *C. albicans* (MICs = 1 and 0.0078 µg/ml alone and in combination, respectively). PF-1163A is a more polar form of PF-1163B.

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

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