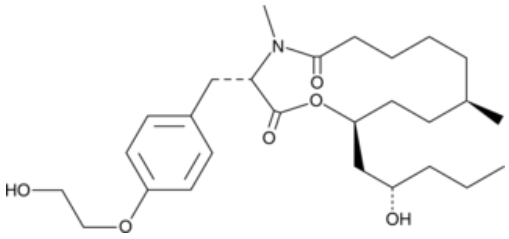
Product Data Sheet

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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