PF1163A

Synonyms : 

Specifications

CAS # : 258871-59-9
Molecular Formula : C_{27}H_{43}NO_{6}
Molecular Weight : 477.6
Source : Unidentified fungus
Appearance : Brown oil
Purity : >95% by HPLC
Long Term Storage : -20°C
Solubility : Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

PF1163A is an unusual 13-membered depsipeptide isolated from an undescribed species of Pencillium by researchers at Meiji Seika Kaisha and reported in 2000 as an antifungal active. The macrocycle of PF1163A comprises a modified N-methyltyrosine conjugated with a 9-hydroxytetradecanoic acid. The total synthesis and absolute stereochemistry were reported in 2014.

PF1163A is a selective antifungal agent with low mammalian toxicity. PF1163A acts on ergosterol biosynthesis, inhibiting C-4 sterol methyl oxidase, and acts synergistically with fluconazole against azole resistant Candida albicans.

References