

Product Data Sheet

Product Name: AS-2077715

Cat. No.: GC46883

Chemical Properties

Cas. No. 1637356-98-9

SMILES CCC(C)CC(C)CCC1OC(C2=C(O)C(C3C(O)C(O)C(O)C3O)=CN(C)C2=O)CCC1

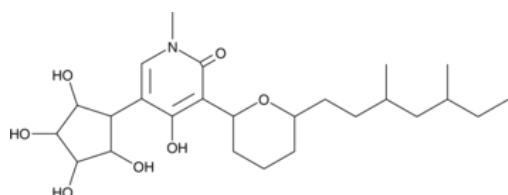
Formula C₂₅H₄₁NO₇ M.Wt 467.6

Solubility Dichloromethane: soluble, DMSO: Storage Store at -20°C
soluble, Ethanol: soluble, Methanol:
soluble

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the
tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or
Condition blue ice upon request.

Structure



Background

AS-2077715 is a fungal metabolite and an inhibitor of fungal mitochondrial complex III (cytochrome bc₁; IC₅₀ = 80 ng/ml for *T. mentagrophytes* complex III).¹ It is selective for fungal over mammalian complex III (IC₅₀s = 480 and 860 ng/ml for murine EL-4 cell and human Jurkat cell complex III, respectively). AS-2077715 inhibits ATP production in (IC₅₀ = 0.33 µg/ml) and is fungicidal against *T. mentagrophytes* when used at concentrations of 1 and 10 µg/ml. *In vivo*, AS-2077715 (10 and 20 mg/kg) reduces the number of foot pad skin colony forming units (CFUs) in a guinea pig model of *T. mentagrophytes* infection.²

1. Ohsumi, K., Watanabe, M., and Fujie, A. AS2077715 Is a selective inhibitor of fungal mitochondrial cytochrome Bc₁ complex. J. Antibiot. (Tokyo) 67(10):713-716 (2014)
2. Ohsumi, K., Murai, H.,

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

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Nakamura, I., et al. Therapeutic efficacy of AS2077715 against experimental tinea pedis in guinea pigs in comparison with terbinafine. J. Antibiot. (Tokyo) 67(10):717-719 (2014)

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