

Product Data Sheet

Product Name: Bisucaberin

Cat. No.: GC49041

Chemical Properties

Cas. No. 112972-60-8

SMILES O=C1N(O)CCCCCNC(CCC(N(O)CCCCCNC(CC1)=O)=O)=O

Formula C₁₈H₃₂N₄O₆

M.Wt 400.5

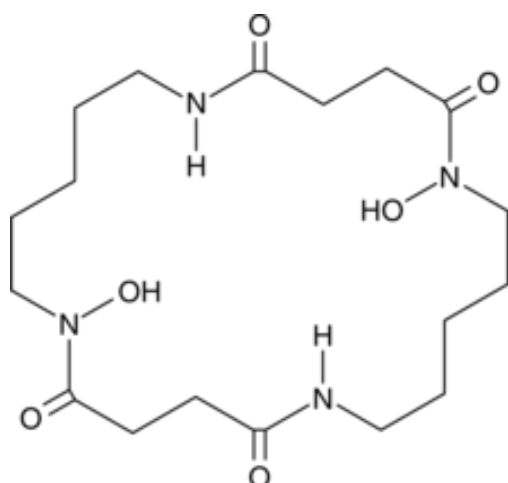
Solubility N/A

Storage -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

Bisucaberin is a siderophore and bacterial metabolite that has been found in *A. haloplanktis* and has anticancer activity.^{1,2} It inhibits the growth of L1210 and 1MC carcinoma cells (IC₅₀s = 9.7 and 12.7 μM, respectively) and sensitizes fibrosarcoma 1023 cells to macrophage-mediated cytotoxicity.

1. Hou, Z., Raymond, K.N., O'Sullivan, B., et al. A preorganized siderophore: Thermodynamic and structural characterization of alcaligin and bisucaberin, microbial macrocyclic dihydroxamate chelating agents. *Inorg. Chem.* 37(26)6630-6637 (1998) 2. Kameyama, T., Takahashi, A., Kurasawa, S.,

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

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et al. Bisucaberin, a new siderophore, sensitizing tumor cells to macrophage-mediated cytotoxicity. I. Taxonomy of the producing organism, isolation and biological properties. J. Antibiot. (Tokyo) 40(12):1664-1670 (1987)

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