

Product Data Sheet

Product Name: Cyclomarin monomer-1

Cat. No.: GC79847

Chemical Properties

Cas. No.

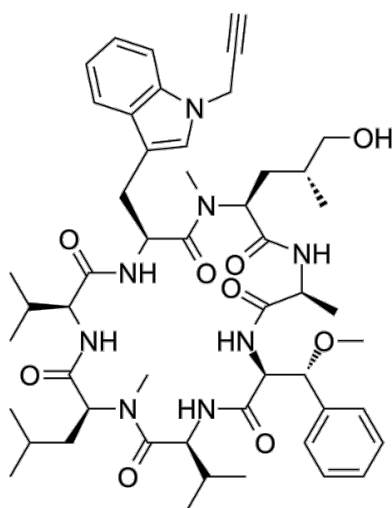
Formula $C_{51}H_{72}N_8O_9$ M.Wt 941.17

Solubility DMSO: ≥ 100 mg/mL (106.25 mM) Storage Sealed storage, away from moisture and light, under nitrogen

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

Cyclomarin monomer-1 (Compound 5), a cyclomarin monomer, is a pre-dimerization precursor that can form Homo-BacPROTACs targeting the degradation of ClpC1. Cyclomarin monomer-1 binds to the Mtb ClpC1 protein with a K_D of 3.5 nM. The MIC of Cyclomarin monomer-1 against the Mtb H37Rv standard strain is 1.6 μ M. Cyclomarin monomer-1 can be used as a key intermediate in the development of Homo-BacPROTACs [1].

References:

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

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[1]. Junk L, et al. Homo-BacPROTAC-induced degradation of ClpC1 as a strategy against drug-resistant mycobacteria. Nat Commun. 2024 Mar 5;15(1):2005

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