

Catalog Number: CM02617

产品信息

Catalog Number:
CM02617

CAS号:
91421-43-1

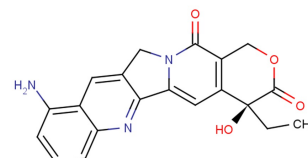
分子式:
 $C_{20}H_{17}N_3O_4$

主要靶点:
Topoisomerase

主要通路:
DNA损伤和修复

分子量:
363.4

溶解度:
DMSO:3.33 mg/mL (9.16 mM)



体外活性

9-Aminocamptothecin inhibits PC-3, PC-3M, DU145, and LNCaP cells with IC₅₀ values of 34.1, 10, 6.5, and 8.9 nM, respectively after 96 h of drug exposure [1]. In human bladder (MGH-U1), breast (MCF-7), and colon (HT-29) cancer cell lines, 9-Aminocamptothecin cytotoxicity increases with both higher drug concentrations and longer exposure times. Minimal cell killing is also observed unless 9-Aminocamptothecin concentrations exceed a threshold of 2.7 nM [2].

体内活性

9-Aminocamptothecin inhibits tumor growth at the lowest oral dose (0.35 mg/kg/day), whereas higher oral doses (0.75 and 1 mg/kg/day) and s.c. administration (4 mg/kg/week) causes tumor regression [1]. 9-Aminocamptothecin induces complete remissions in 55 % of SCID mice engrafted with human myeloid leukemia. The oral and intravenous routes are equally effective [3].

描述

9-Aminocamptothecin is an inhibitor of topoisomerase I with potent anticancer activity.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years