

Catalog Number: CM03062

产品信息

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CM03062

CAS号:
20350-15-6

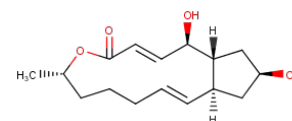
分子式:
C₁₆H₂₄O₄

主要靶点:
CRISPR/Cas9|Autophagy|HSV|Antibiotic|ATPase|Mitophagy

主要通路:
DNA损伤和修复|离子通道|微生物学|自噬

分子量:
280.36

溶解度:
Ethanol:2.8 mg/mL (10 mM),DMSO:14 mg/mL (50 mM)



靶点活性

ATPase (HCT 116):0.2 μM

体内活性

在HF4.9和HF28RA细胞中,Brefeldin A (25 ng/mL)完全抑制细胞生长。在HF1A3细胞中,Brefeldin A (75 ng/mL)完全抑制细胞生长。

细胞实验

HF1A3, HF4.9 cell viability upon the treatments is tested using double staining of cells with YO-PRO 1/PI and SYTO16/PI probes. To access cell proliferation, cells are treated with 0–100 ng/mL Brefeldin A in complete medium for 20 hours before adding 1 μCi/mL [methyl-³H]-thymidine for additional 4 hours at 37 °C. The incorporated radioactive thymidine is quantified by scintillation counting with Microbeta counter. To examine long-term effects of Brefeldin A treatment, cells are seeded at initial concentration 105 cells/mL and treated with 0-75 ng/mL Brefeldin A for up to 5 days. At the time indicated, a sample of cells is removed and viable cell number is assessed by standard Trypan Blue exclusion assay.(Only for Reference)

描述

Brefeldin A, a *Penicillium brefeldianum* metabolite, which is a macrocyclic lactone exhibiting a wide range of antibiotic activity. It is also an ATPase inhibitor for protein transport in HCT 116 cells(IC₅₀=0.2 μM), inducing Y cell differentiation and apoptosis.

储存

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