

Catalog Number: CM04512

产品信息

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CM04512

CAS号:
16611-84-0

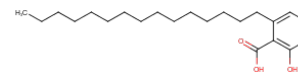
分子式:
C₂₂H₃₆O₃

主要靶点:
Antibacterial|Epigenetic Reader
Domain|Others|Histone
Acetyltransferase

主要通路:
表观遗传|其他|微生物学

分子量:
348.52

溶解度:
Ethanol:17.4 mg/mL (50
mM),DMSO:34.9 mg/mL (100 mM)



靶点活性

PCAF(p300/CREB-binding protein-associated factor):5 μM|p300(HAT):8.5 μM

体外活性

Anacardic acid is an inhibitor of several Clinically targeted enzymes such as HATs, NF-κB, LOX-1, xanthine oxidase, tyrosinase, and ureases. Anacardic acid is also an effective inhibitor of Tip60 in vitro. It inhibits the Tip60-dependent acetylation and activation of the ATM protein kinase in HeLa cells and sensitizes the cells to the cytotoxic effects of radiation.

体内活性

Anacardic acid decreases over-expression of Gata4, α-MHC, and cTnT in fetal mouse hearts exposed to ethanol. Anacardic acid inhibits binding of PCAF, P300 to the promoter of Gata4.

动物实验

Animal Models: 9 to 11 week old Kunming mice. Formulation: Dissolved in DMSO,co-injected with ethanol. Dosages: 0,1.25,2.5,5,10 mg/kg. Administration: i.p.

细胞实验

HeLa and 293T cells are grown in Dulbecco's modified Eagle's medium/10% fetal calf serum. SQ20B and SCC35 squamous cell carcinoma cell lines are cultured in modified eagles medium/10% fetal calf serum. For anacardic acid (EMD Biosciences, CA) exposure, cells are preincubated with anacardic acid (0-100 μM) for 40 min, irradiated, then allowed to recover for 4 h. Cells are then switched to fresh media and allowed to grow for 10 days.

描述

Anacardic Acid is an effective inhibitor of p300 and p300/CBP-associated factor histone acetyltransferases. It also has antimicrobial activity, antibacterial activity, and inhibits prostaglandin synthase, lipoygenase, and tyrosinase.

储存

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