For Research Use Only

1-HEXACOSANOL

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Catalog Number: CM12717

产品信息

Catalog Number:
CM12717

CAS号:
506-52-5

分子式:
$C_{26}H_{54}O$

主要靶点:
AMPK|NPC1L1

主要通路:
PI3K/Akt/mTOR信号通路|表观遗传|离子通道

分子量:
382.71

溶解度:
DMSO:Insoluble

体内活性

Plasma, hepatic cholesterol concentrations and hepatic steatosis were significantly reduced in high-fat-fed mice orally administered with hexacosanol (0.7 mg/kg body weight/day) for 8 weeks compared to those of vehicle-fed control mice (-15 and -40%, respectively)[1]. Diabetes was induced in 8-week-old male Sprague-Dawley rats by administering an intraperitoneal injection of streptozotocin (50 mg/kg). The rats were divided into four groups and maintained for 8 weeks: control rats, diabetic rats without treatment with N-hexacosanol, and diabetic rats treated with N-hexacosanol (2 mg/kg and 8 mg/kg i.p. every day). Although N-hexacosanol failed to modify the diabetic status, increases in serum creatinine as well as in kidney weight were significantly reduced. The malonaldehyde and transforming growth factor beta-1 (TGF-beta1) concentrations as well as the protein kinase C (PKC) activities in the diabetic kidney were significantly higher than those of the control, which were decreased by treatment with N-hexacosanol. Histological examinations revealed that N-hexacosanol significantly ameliorated diabetic-induced tubulointerstitial pathological changes[2].

描述

Hexacosanol activates AMPK and hepatic autophagy and inhibits SREBP2, resulting in hypocholesterolemic activities and improvement of hepatic steatosis.

储存

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