

Catalog Number: CM00674

## 产品信息

**Catalog Number:**  
CM00674

**CAS号:**  
143-07-7

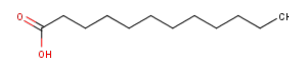
**分子式:**  
C<sub>12</sub>H<sub>24</sub>O<sub>2</sub>

**主要靶点:**  
Antibacterial|Endogenous  
Metabolite|Others

**主要通路:**  
代谢|微生物学

**分子量:**  
200.32

**溶解度:**  
H<sub>2</sub>O:16 mg/mL (79.87  
mM); Ethanol:38 mg/mL (189.7  
mM); DMSO:45 mg/mL (224.64  
mM)



## 靶点活性

*S. epidermidis*:4 μg/mL(EC50)|*S. aureus*:6 μg/mL(EC50)|*P. acnes*:2 μg/mL(EC50)

## 体外活性

Lauric acid在Caco-2细胞(p<0.05)和IEC-6细胞(p<0.05)中诱导凋亡。在Caco-2细胞中, Lauric acid降低了GSH的可用性并且与丁酸比较, 产生了更多的ROS(p<0.05)。Lauric acid使得Caco-2和IEC-6细胞在G0/G1期的数量减少, 同时在S期和G2/M期阶段停滞。与丁酸相比, Lauric acid在IEC-6细胞中诱导了凋亡(p<0.05), 并引起了高水平的ROS[1]。

## 细胞实验

Cell lines are harvested by enzymatic dissociation and seeded into 24-well tissue culture plates at 2.5 ×10<sup>5</sup>; 10<sup>5</sup> and 1.5 ×10<sup>5</sup> cells/ml, respectively. After 24 h of incubation, the medium is replaced with 1 ml of complete DMEM containing freshly prepared (50 mM) Lauric acid, conjugated to 0.4% FAF-BSA to final concentrations of 0.1, 0.3, 0.5 and 1 mM and compared to NaB (5 mM) with 50 μl of 0.4% FAF-BSA as a vehicle control and incubated in a humidified atmosphere at 37 °C in 5% CO<sub>2</sub> and, after enzymatic dissociation, assayed at 24, 48, 72, and 96 h. All experimental studies are undertaken in triplicate and measured in duplicate. (Only for Reference)

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.