

Catalog Number: CM01669

产品信息

Catalog Number:
CM01669

CAS号:
64506-49-6

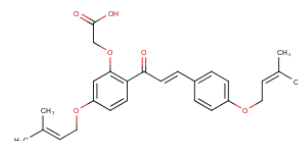
分子式:
C₂₇H₃₀O₆

主要靶点:
Autophagy|Antibacterial

主要通路:
微生物学|自噬

分子量:
450.52

溶解度:
DMSO:50 mg/mL (110.98 mM)



体外活性

Sofalcone (50 μ mol/L) significantly increases HO-1 mRNA expression than the control group in both trophoblasts and HUVECs ($P < 0.05$ for both). Western blot analysis shows that Sofalcone potently increases HO-1 protein expression in primary HUVECs treated for 24 hours. Western blot analysis also reveals a significant increase in the amount of Nrf2 in the nuclear fraction of HUVECs with Sofalcone treatment (50 μ mol/L) for 6 hours. In primary HUVECs, expression of NQO1, TXN, and GCLC are increased in a dose dependently manner with Sofalcone treatment for 24 hours. Sofalcone significantly decreases the sFlt-1 concentrations in the culture media and dose dependently decreases the amount of THP-1 monocyte adherence to HUVECs.

细胞实验

Primary HUVECs are seeded at 60,000 cells per well and incubated at 37°C for 14 to 16 hours to allow tube formation. Cells are then cultured in the presence of either TNF- α (10 ng/mL) alone, with both TNF- α (10 ng/mL) and Sofalcone 50 μ M, or control media for 8 to 12 hours. Tube formation is assessed, and images are captured using microscope at $\times 4$ magnification.

描述

Sofalcone, a gastric antiulcer agent in clinical use, is known to induce the expression of Heme oxygenase-1 (HO-1) in gastric epithelium.

储存

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