

Catalog Number: CM00719

产品信息

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CM00719

CAS号:
347174-05-4

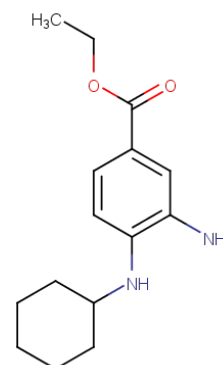
分子式:
C₁₅H₂₂N₂O₂

主要靶点:
Antifungal|Ferroptosis

主要通路:
微生物学|凋亡

分子量:
262.35

溶解度:
Ethanol:26.2 mg/mL (100 mM),DMSO:200 mg/mL (762.3 mM)



靶点活性

ferroptosis:60 nM(EC50, HT-1080 cells)

体外活性

Ferrostatin-1 (Fer-1) is the most potent inhibitor of erastin-induced ferroptosis in HT-1080 cells (EC₅₀=60 nM). Ferrostatin-1 did prevent erastin-induced accumulation of cytosolic and lipid ROS [1]. Ferrostatin-1 inhibited cell death in cellular models of Huntington's disease (HD), periventricular leukomalacia (PVL), and kidney dysfunction; Fer-1 inhibited lipid peroxidation, but not mitochondrial reactive oxygen species formation or lysosomal membrane permeability [2]. Fer-1 is not toxic toward the SH-SY5Y cells at concentrations up to 12.5 μM. Fer-1 compound quenched the commercially available stable radical DPPH₁ in non-cellular assay at 82 %. Fer-1 inhibited the ROS/RNS generated under rotenone insult in SH-SY5Y cells [3].

细胞实验

Cell viability was typically assessed in 384-well format by Alamar Blue fluorescence (ex/em 530/590) measured on a Victor3 plate reader. In some experiments, Trypan Blue dye exclusion counting was performed using an automated cell counter. Cell viability under test conditions is reported as a percentage relative to the negative control treatment [1].

描述

Ferrostatin-1 is a potent ferroptosis inhibitor (EC₅₀: 60 nM).

储存

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