

Catalog Number: CM04076

产品信息

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CM04076

CAS号:
950455-15-9

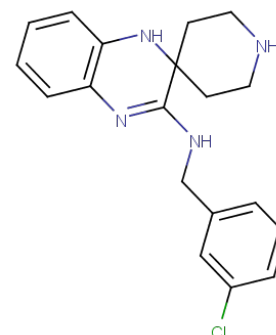
分子式:
C₁₉H₂₁ClN₄

主要靶点:
Ferroptosis

主要通路:
凋亡

分子量:
340.85

溶解度:
Ethanol:soluble,DMSO:60 mg/ml
(176.03 mM),H₂O:insoluble



靶点活性

ferroptosis:22 nM

体外活性

Liproxstatin-1与溶剂对照组相比,可明显地延长生存期,抑制小管上皮细胞中铁死亡,并减轻了局部缺血/再灌注引起的肝损伤中的组织损伤。

体内活性

Liproxstatin-1 (200 nM) 以剂量依赖的方式保护免受FINs (例如BSO (10 μM),erastin (1 μM) 和RSL3 (0.5 μM)) 诱发的细胞死亡,而不能阻断由0.2 μM 过氧化氢和200 μM H₂O₂诱发的细胞死亡。Liproxstatin-1能够在低纳摩尔范围内抑制铁死亡,并抑制Gpx4^{-/-} 细胞的生长,IC₅₀为22 nM。Liproxstatin-1 (50 nM) 完全防止Gpx4^{-/-} 细胞的脂质过氧化。

细胞实验

Cell viability is assessed at different time points after treatment using AquaBluer according to the manufacturer's recommendations. Alternatively, cell death is also quantified by measuring released lactate dehydrogenase activity using the cytotoxicity detection kit (LDH). (Only for Reference)

描述

Liproxstatin-1 is a potent ferroptosis inhibitor.

储存

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