For Research Use Only

SP2509

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Catalog Number: CM04540

产品信息

Catalog Number:
CM04540

CAS号:
1423715-09-6

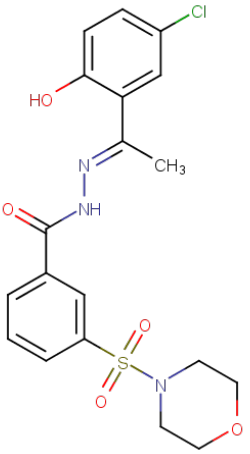
分子式:
$C_{19}H_{20}ClN_3O_5S$

主要靶点:
Histone Demethylase|Apoptosis

主要通路:
表观遗传|凋亡

分子量:
437.9

溶解度:
H2O:<1 mg/mL,DMSO:36 mg/mL (82.2 mM),Ethanol:<1 mg/mL



靶点活性

LSD1:13 nM

体外活性

在负荷OCI-AML3异种移植物的小鼠中,SP2509（25 mg/kg i.p.）,能够抑制肿瘤生长,延迟动物的存活.

体内活性

在OCI-AML3中,SP250能够抑制集落形成,诱导细胞凋亡。在AML细胞中,SP2509能够抑制LSD1与CoREST作用,增加启动子特异性H3K4Me3,同时诱导p53,p21和C/EBPα。在原代AML细胞中,SP2509诱导细胞的增殖。

细胞实验

Cultured AML cells are treated with SP2509 and/or PS for 96?h. At the end of treatment, cells are washed free of the drugs and 500 cells per condition are plated in methylcellulose and incubated at 37?°C. Colony formation is measured 7–10 days after plating.(Only for Reference)

描述

SP2509 is a specific histone demethylase LSD1 inhibitor(IC50 =13 nM).

储存

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