For Research Use Only

JZL 184

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Catalog Number: CM04965

产品信息

Catalog Number:
CM04965

CAS号:
1101854-58-3

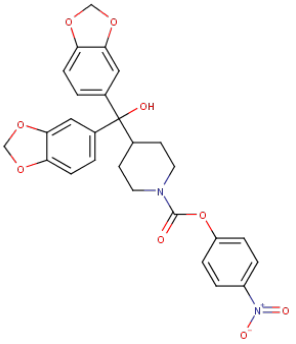
分子式:
$C_{27}H_{24}N_2O_9$

主要靶点:
Lipase

主要通路:
代谢

分子量:
520.49

溶解度:
H2O:<1 mg/mL,Ethanol:<1 mg/mL,DMSO:93 mg/mL (178.7 mM)



靶点活性

MAGL:8 nM

体外活性

JZL184 is a useful tool for studying the effects of endogenous 2-AG signaling. JZL184 displays time-dependent inhibition of MAGL and exhibits >300-fold selectivity for MAGL over FAAH in vitro. JZL184 does not interact with CB1 or CB2 receptors and does not inhibit the 2-AG biosynthetic enzymes diacylglycerol lipase-α and diacylglycerol lipase-β, or the arachidonic acid–mobilizing enzyme cytosolic phospholipase A2 group IVA. [1]

体内活性

JZL184 produced a rapid and sustained blockade of brain 2-AG hydrolase activity in mice, resulting in eight-fold elevations in endogenous 2-AG levels that are maintained for at least 8 h. JZL184-treated mice showed a wide array of CB1-dependent behavioral effects, including analgesia, hypomotility and hypothermia, that suggest a broad role for 2-AG–mediated endocannabinoid signaling throughout the mammalian nervous system. [1]

细胞实验

1 × 105 cells are split into four-well chamber slides and incubated with culture medium containing BrdU for 4 h. BrdU staining is performed following the manufacturer's instructions.(Only for Reference)

描述

JZL 184 is a potent and selective inhibitor of MAGL with IC50 of 8 nM and 4 μM for inhibition of MAGL and FAAH in mouse brain membranes respectively.

储存

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