For Research Use Only

1-Azakenpaullone

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Catalog Number: CM14299

产品信息

Catalog Number:
CM14299

CAS号:
676596-65-9

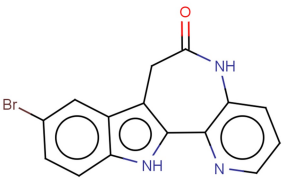
分子式:
$C_{15}H_{10}BrN_3O$

主要靶点:
GSK-3

主要通路:
PI3K/Akt/mTOR信号通路|干细胞

分子量:
328.16

溶解度:
H2O:<1 mg/mL,DMSO:61 mg/mL (185.9 mM),Ethanol:<1 mg/mL



靶点活性

GSK-3β:18 nM

体外活性

1-Azakenpaullone inhibits the CDK1/cyclin B, CDK5/p25, and GSK-3β effectively, with IC50 of 0.018 μM, 4.2 μM, and 2.0 μM, respectively. [1] In human islets, 1-Azakenpaullone (5 mM) in combination with glucose (8 mM) stimulates the β-cell proliferation. [2] 1-Azakenpaullone effectively stimulates INS-1E cells replication and protects INS-1E cells against glucolipotoxicity-induced cell death. [3][4]

体内活性

Pretreatment with 1-Azakenpaullone (10 or 100 pmol, i.c.v.) attenuates the ketamine-induced locomotor hyperactivity, disruption of PPI and cognitive de?cits, and improves the ketamine-induced motor incoordination in rotarod test. [5]

细胞实验

Cell replication is determined by BrdUrd incorporation after treatment with 1-Azakenpaullone for 24 h. The relative cell number is determined after treatment with 1-Azakenpaullone for 4 days using the CyQuant cell proliferation assay. Results are presented as fold change relative to control. (Only for Reference)

描述

1-Azakenpaullone is a potent and selective GSK-3β inhibitor with IC50 of 18 nM, >100-fold selectivity over CDK1/cyclin B and CDK5/p25.

储存

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

For technical support and original validation data for this product please contact
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