For Research Use Only

CGP 57380

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Catalog Number: CM05195

产品信息

Catalog Number:
CM05195

CAS号:
522629-08-9

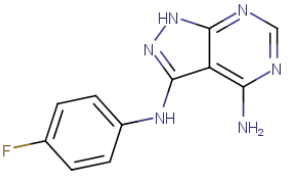
分子式:
$C_{11}H_9FN_6$

主要靶点:
MNK|Apoptosis

主要通路:
MAPK信号通路|凋亡

分子量:
244.23

溶解度:
DMSO:45 mg/mL (184.3 mM),Ethanol:<1 mg/mL,H2O:<1 mg/mL



靶点活性

MNK1:2.2 μM

体外活性

CGP57380 inhibits phosphorylation of eIF4E in vitro with IC50 of about 3 μM. CGP57380 causes dephosphorylation of eIF4E, and induces a further increase in the cap-dependent reporter in 293 cells. [1] CGP57380 results in dose-dependent decreases in Ang II-stimulated phosphorylation of eIF4E, protein synthesis, and VSMC hypertrophy. [2] CGP57380 sensitizes wild-type cells for serum-withdrawal induced apoptosis in mouse embryo fibroblasts (MEFs). [3] CGP57380 prevents the serial replating function of BC progenitors. [4]

体内活性

CGP57380 (40 mg/kg/d i.p.) potently abrogates the ability of BC CML cells to serially transplant-immunodeficient mice and function as LSCs. [4]

描述

CGP 57380 is a potent MNK1 inhibitor with IC50 of 2.2 μM, exhibiting no inhibitory activity on p38, JNK1, ERK1 and -2, PKC, or c-Src-like kinases.

储存

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