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CGP 57380

Catalog No: tcsc2779

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
522629-08-9

Formula:
$C_{11}H_9FN_6$

Pathway:
MAPK/ERK Pathway

Target:
MNK

Purity / Grade:
>98%

Solubility:
DMSO : 6 mg/mL (24.57 mM; Need ultrasonic and warming)

Observed Molecular Weight:
244.23

Product Description

CGP 57380 is a cell-permeable pyrazolo-pyrimidine compound that acts as a selective inhibitor of **Mnk1** with **IC_{50}** of 2.2 μM, but has no inhibitory activity against p38, JNK1, ERK1/2, PKC, or Src-like kinases.

In Vitro: CGP57380 inhibits phosphorylation of eIF4E in cellular assays with IC_{50} 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].

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