

# 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

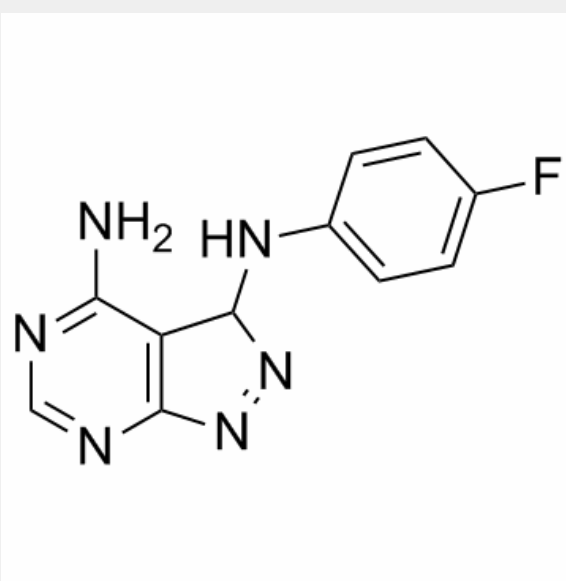
## Product Description

CGP 57380 is a cell-permeable pyrazolo-pyrimidine compound that acts as a selective inhibitor of **Mnk1** with **IC<sub>50</sub>** 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<sub>50</sub> of about 3 μM. CGP57380 causes dephosphorylation of eIF4E, and induces a further increase in the cap-dependent reporter in 293 cells<sup>[1]</sup>. CGP57380 results in dose-dependent decreases in Ang II-stimulated phosphorylation of eIF4E, protein synthesis, and VSMC hypertrophy<sup>[2]</sup>. CGP57380

sensitizes wild-type cells for serum-withdrawal induced apoptosis in mouse embryo fibroblasts (MEFs)<sup>[3]</sup>. CGP57380 prevents the serial replating function of BC progenitors<sup>[4]</sup>.

***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<sup>[4]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!