

Product Name: CGP 57380

Catalog No.: 2731

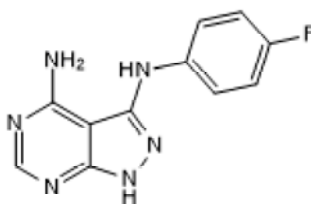
Batch No.: 3

CAS Number: 522629-08-9

IUPAC Name: *N*³-(4-Fluorophenyl)-1*H*-pyrazolo-[3,4-*d*]pyrimidine-3,4-diamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₉FN₆
Batch Molecular Weight: 244.23
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.1	3.71	34.41
Found	54.15	3.72	34.28

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: CGP 57380

Catalog No.: 2731

Batch No.: 3

CAS Number: 522629-08-9

IUPAC Name: *N*³-(4-Fluorophenyl)-1*H*-pyrazolo-[3,4-*d*]pyrimidine-3,4-diamine

Description:

Inhibitor of MAP-kinase interacting kinase-1 (Mnk1, MKNK1) (IC₅₀ = 2.2 μM) that displays selectivity over p38, JNK1, ERK1, ERK2, PKC and c-src family kinases. Blocks phosphorylation of eIF4E in cellular assays (IC₅₀ = 3 μM) and inhibits LPS-induced TNFα expression in macrophages.

Physical and Chemical Properties:

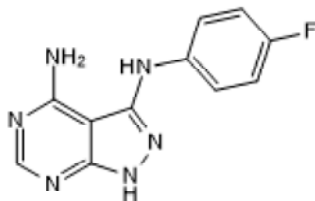
Batch Molecular Formula: C₁₁H₉FN₆

Batch Molecular Weight: 244.23

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Andersson and Sundler (2006) Posttranscriptional regulation of TNFα expression via eukaryotic initiation factor 4E (eIF4E) phosphorylation in mouse macrophages. *Cytokine* **33** 52. PMID: 16431125.

Ishida et al (2003) Mnk1 is required for angiotensin II-induced protein synthesis in vascular smooth muscle cells. *Circ.Res.* **93** 1218. PMID: 14605021.

Knauf et al (2001) Negative regulation of protein translation by mitogen-activated protein kinase-interacting kinases 1 and 2. *Mol.Cell.Biol.* **21** 5500. PMID: 11463832.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956