1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** \( C_{11}H_{9}FN_{6} \)
- **Batch Molecular Weight:** 244.23
- **Physical Appearance:** Yellow solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Store at +4°C

2. ANALYTICAL DATA

- **TLC:** \( R_f = 0.15 \) (Dichloromethane:Methanol [95:5])
- **HPLC:** Shows 99.1% purity
- **\(^1\)H 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
Product Information

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**Product Name:** CGP 57380  
**CAS Number:** 522629-08-9  
**IUPAC Name:** $N^3$-(4-Fluorophenyl)-1H-pyrazolo-[3,4-d]pyrimidine-3,4-diamine

**Description:** Inhibitor of MAP-kinase interacting kinase-1 (Mnk1, MKNK1) ($IC_{50} = 2.2 \, \mu M$) that displays selectivity over p38, JNK1, ERK1, ERK2, PKC and c-src family kinases. Blocks phosphorylation of eIF4E in cellular assays ($IC_{50} = 3 \, \mu M$) and inhibits LPS-induced TNFα expression in macrophages.

**Physical and Chemical Properties:**  
Batch Molecular Formula: $C_{11}H_{10}FN_6$  
Batch Molecular Weight: 244.23  
Physical Appearance: Yellow solid  
Minimum Purity: $>98\%$

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

**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:**


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

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