

## Certificate of Analysis

**Product Name:** Org 48762-0

**Catalog No.:** 6014

**Batch No.:** 1

CAS Number: 755753-89-0

IUPAC Name: 4,6-Bis(4-fluorophenyl)-2-methyl-5-(4-pyridinyl)-2H-pyrazolo[3,4-b]pyridine

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>24</sub>H<sub>16</sub>F<sub>2</sub>N<sub>4</sub>·¼H<sub>2</sub>O

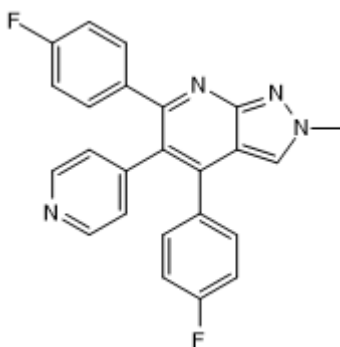
**Batch Molecular Weight:** 402.91

**Physical Appearance:** Pale yellow solid

**Solubility:** DMSO to 100 mM  
1eq. HCl to 50 mM  
ethanol to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.37 (Dichloromethane:Methanol [95:5])

**HPLC:** Shows 99% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	71.54	4.13	13.91
Found	71.49	3.88	13.84

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**Description:**

Selective p38 $\alpha$  and  $\beta$  kinase inhibitor ( $EC_{50}$  = 0.1  $\mu$ M for p38 $\alpha$ ). Selective for p38 $\alpha$ / $\beta$  over a panel of 48 other human kinases. Inhibits LPS-induced TNF $\alpha$  release from PBMCs. Also inhibits cytokine release in an LPS-induced endotoxemia model in mice. Orally bioavailable.

**Physical and Chemical Properties:**

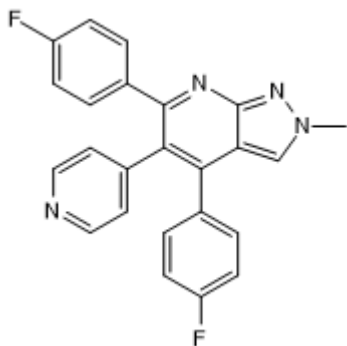
Batch Molecular Formula: C<sub>24</sub>H<sub>16</sub>F<sub>2</sub>N<sub>4</sub> · ¼H<sub>2</sub>O

Batch Molecular Weight: 402.91

Physical Appearance: Pale yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

Mihara *et al* (2008) A potent and selective p38 inhibitor protects against bone damage in murine collagen-induced arthritis: a comparison with neutralization of mouse TNF $\alpha$ . *Br.J.Pharmacol.* **154** 153. PMID: 18297096 .

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
1eq. HCl to 50 mM  
ethanol to 100 mM

**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.

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