Product Name: RWJ 67657 Catalog No.: 2999 Batch No.: 2
CAS Number: 215303-72-3
IUPAC Name: 4-[4-(4-Fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]-3-butyn-1-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{27}\text{H}_{24}\text{FN}_3\text{O} \cdot 0.4\text{H}_2\text{O} \)
Batch Molecular Weight: 430
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM ethanol to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.8 \) (Ethyl acetate)
HPLC: Shows 98.8% purity
\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
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<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Selective p38α and p38β inhibitor (IC₅₀ values are 1 and 11 μM respectively) that displays no activity at p38γ, p38δ and a range of other kinases. Potently inhibits TNF-α and IL-1β release (IC₅₀ values are 3 and 11 nM respectively) and suppresses HIV-1 replication in T cells in vitro. Displays cardioprotective and anti-inflammatory activity in vivo. Orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₁₂H₁₁₄FN₄O₄.½H₂O
Batch Molecular Weight: 430
Physical Appearance: Off-white solid
Minimum Purity: >98%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 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.

References: