

**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)-1*H*-imidazol-2-yl]-3-butyn-1-ol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>24</sub>FN<sub>3</sub>O.¼H<sub>2</sub>O

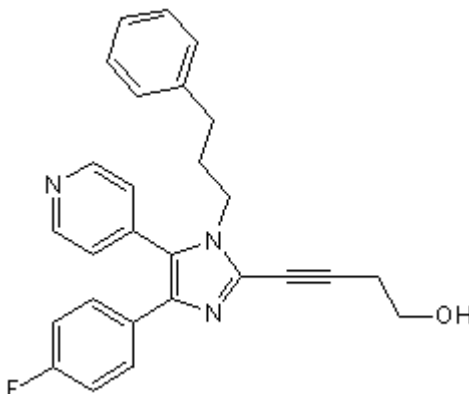
**Batch Molecular Weight:** 430

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM  
ethanol to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.8 (Ethyl acetate)

**HPLC:** Shows 98.8% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical 75.42 5.74 9.77

Found 75.16 5.62 9.81

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

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**Description:**

Selective p38 $\alpha$  and p38 $\beta$  inhibitor (IC<sub>50</sub> values are 1 and 11  $\mu$ M respectively) that displays no activity at p38 $\gamma$ , p38 $\delta$  and a range of other kinases. Potently inhibits TNF- $\alpha$  and IL-1 $\beta$  release (IC<sub>50</sub> 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:**

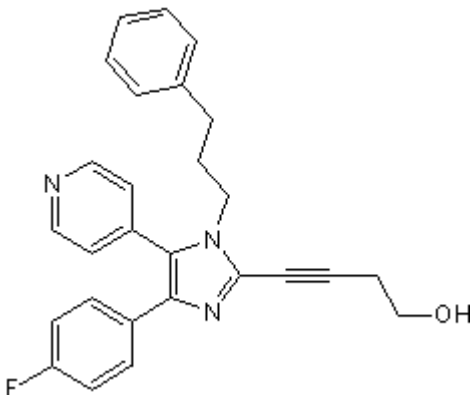
Batch Molecular Formula: C<sub>27</sub>H<sub>24</sub>FN<sub>3</sub>O.¼H<sub>2</sub>O

Batch Molecular Weight: 430

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Wadsworth et al** (1999) RWJ 67657, a potent, orally active inhibitor of p38 mitogen-activated protein kinase. *J.Pharm.Exp.Ther.* **291** 680.

**Muthumani et al** (2004) Suppression of HIV-1 viral replication and cellular pathogenesis by a novel p38/JNK kinase inhibitor. *AIDS* **18** 739. PMID: 15075508.

**See et al** (2004) p38 mitogen activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat. *J.Am.Coll.Cardiol.* **44** 1679. PMID: 15489104.

**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.

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