

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: C₂₇H₂₄FN₃O.¼H₂O

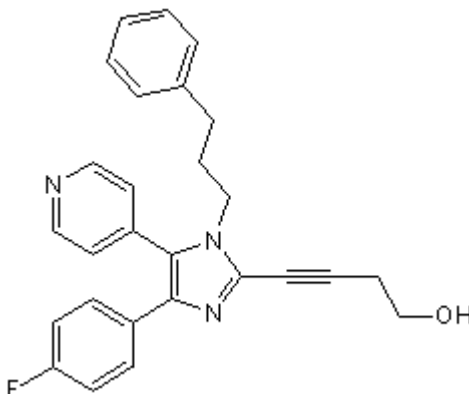
Batch Molecular Weight: 430

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_f = 0.8 (Ethyl acetate)

HPLC: Shows 98.8% purity

¹H 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 α and p38 β inhibitor (IC₅₀ values are 1 and 11 μ M respectively) that displays no activity at p38 γ , p38 δ and a range of other kinases. Potently inhibits TNF- α and IL-1 β 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:

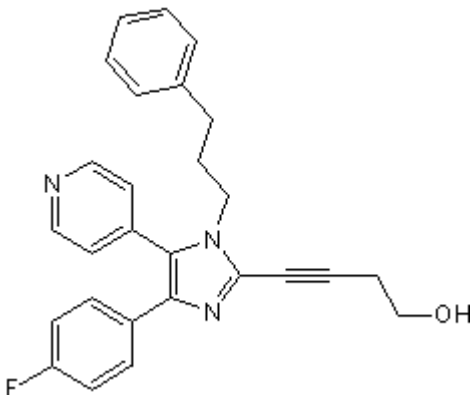
Batch Molecular Formula: C₂₇H₂₄FN₃O.¼H₂O

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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