

Product Name: A 77-01

Catalog No.: 6712

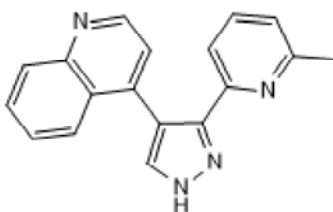
Batch No.: 1

CAS Number: 607737-87-1

IUPAC Name: 4-[3-(6-Methyl-2-pyridinyl)-1H-pyrazol-4-yl]quinoline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₄N₄
Batch Molecular Weight: 286.33
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 1eq. HCl to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.57 (1%NH₄OH/9%MeOH/DCM)
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.5	4.93	19.57
Found	75.26	5.02	19.48

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

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IUPAC Name: 4-[3-(6-Methyl-2-pyridinyl)-1H-pyrazol-4-yl]quinoline

Description:

Potent TGF- β RI (ALK-5) inhibitor (IC_{50} = 34 nM). Inhibits TGF- β transcriptional activation. Inhibits TGF- β -induced proliferation of lung epithelial cells and SMAD phosphorylation. Inhibits TGF- β -induced epithelial-to-mesenchymal transition (EMT). Also inhibitor of p38 MAPK. Likely active metabolite of A 83-01 (Cat. No. 2939).

Physical and Chemical Properties:

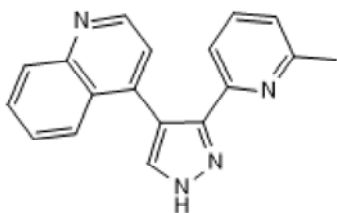
Batch Molecular Formula: C₁₈H₁₄N₄

Batch Molecular Weight: 286.33

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Tojo et al (2005) The ALK-5 inhibitor A-83-01 inhibits Smad signaling and epithelial-to-mesenchymal transition by transforming growth factor- β . *Cancer Sci.* **96** 791. PMID: 16271073.

Sawyer et al (2003) Synthesis and activity of new aryl- and heteroaryl-substituted pyrazole inhibitors of the transforming growth factor- β type I receptor kinase domain. *J.Med.Chem.* **46** 3953. PMID: 12954047.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl to 50 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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