

Product Name: R 268712

Catalog No.: 5288

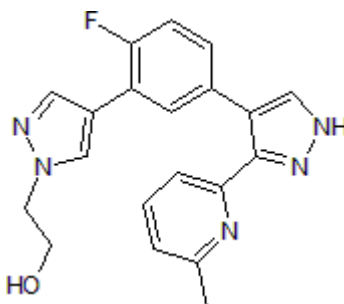
Batch No.: 1

CAS Number: 879487-87-3

IUPAC Name: 4-[2-Fluoro-5-[3-(6-methyl-2-pyridinyl)-1H-pyrazol-4-yl]phenyl]-1H-pyrazole-1-ethanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₈FN₅O
Batch Molecular Weight: 363.39
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.22 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.3])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.1	4.99	19.27
Found	65.87	4.94	19.17

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

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Description:

Potent and selective inhibitor of the TGF- β type I receptor/ALK5 (IC_{50} = 2.5 nM). Exhibits ~5000-fold selectivity over p38 MAPK. Suppresses development of renal fibrosis in a unilateral ureteral obstruction model. Also reduces proteinuria, glomerulosclerosis and improves renal function in an anti-Thy1 glomerulonephritis model. Orally bioavailable.

Physical and Chemical Properties:

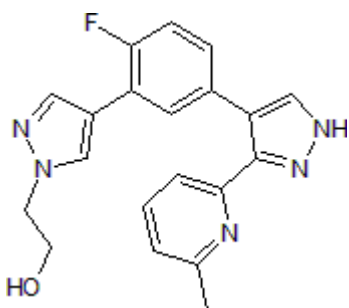
Batch Molecular Formula: C₂₀H₁₈FN₅O

Batch Molecular Weight: 363.39

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Terashima et al (2014) R-268712, an orally active transforming growth factor- β type I receptor inhibitor, prevents glomerular sclerosis in a Thy1 nephritis model. *Eur.J.Pharmacol.* **734** 60. PMID: 24726873.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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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