

Product Name: TA 01

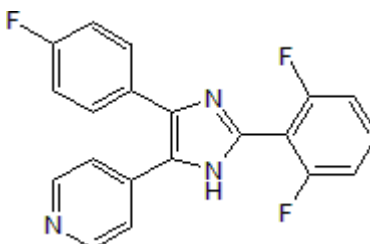
Catalog No.: 5383

Batch No.: 1

IUPAC Name: 4-(2-(2,6-Difluorophenyl)-4-(fluorophenyl)-1H-imidazol-5-yl)pyridine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₂F₃N₃·¼H₂O
Batch Molecular Weight: 355.82
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.51	3.54	11.8
Found	67.73	3.42	11.75

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

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Description:

Induces cardiomyocyte differentiation from human embryonic stem cells following mesoderm induction at 1 μ M. Inhibits cardiomyocyte differentiation at 5 μ M. Potently inhibits CK1 ϵ , p38 α , and CK1 δ (IC₅₀ values are 6.4, 6.7 and 6.8 nM respectively).

Physical and Chemical Properties:

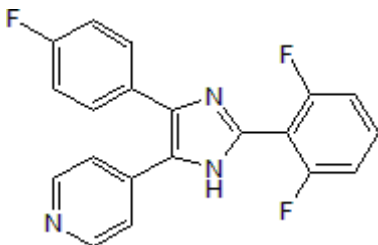
Batch Molecular Formula: C₂₀H₁₂F₃N₃·¼H₂O

Batch Molecular Weight: 355.82

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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:

Laco et al (2014) Cardiomyocyte differentiation of pluripotent stem cells with SB203580 analogues correlates with Wnt pathway CK1 inhibition independent of p38 MAPK signaling. *J.Mol.Cell.Cardiol* **80** 56. PMID: 25528965.

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