

Certificate of Analysis

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Product Name: PPY A

Catalog No.: 4730

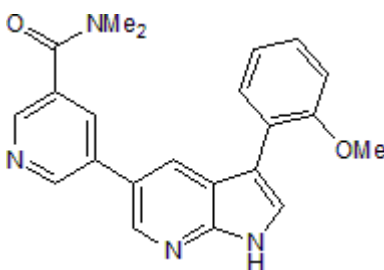
Batch No.: 2

CAS Number: 875634-01-8

IUPAC Name: 5-[3-(2-Methoxyphenyl)-1*H*-pyrrolo[2,3-*b*]pyridin-5-yl]-*N,N*-dimethyl-3-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₀N₄O₂
Batch Molecular Weight: 372.42
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Chloroform:Methanol [9:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.95	5.41	15.04
Found	70.96	5.32	15.08

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

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Description:

Potent inhibitor of T315I mutant and wild-type Abl kinases (IC₅₀ values are 9 and 20 nM, respectively). Inhibits growth of cells transformed with either the Bcr-Abl T315I mutant or wild-type Bcr-Abl gene.

Physical and Chemical Properties:

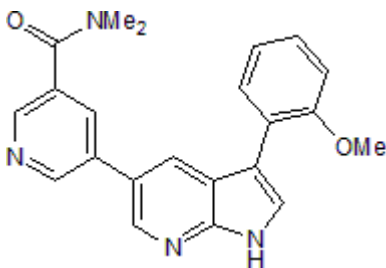
Batch Molecular Formula: C₂₂H₂₀N₄O₂

Batch Molecular Weight: 372.42

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

References:

Zhou et al (2007) Crystal structure of the T315I mutant of Abl kinase. *Chem.Biol.Drug.Des.* **70** 171. PMID: 17718712.

Noronha et al (2008) Inhibitors of ABL and the ABL-T315I mutation. *Curr.Top.Med.Chem.* **8** 905. PMID: 18673174.

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