

Product Name: TCS PIM-1 1

Catalog No.: 2979

Batch No.: 3

CAS Number: 491871-58-0

IUPAC Name: 3-Cyano-4-phenyl-6-(3-bromo-6-hydroxy)phenyl-2(1H)-pyridone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₁BrN₂O₂·¼H₂O

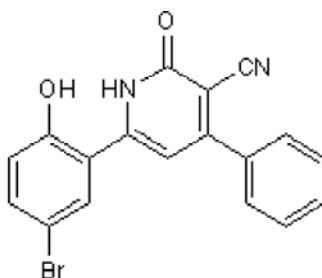
Batch Molecular Weight: 371.7

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Dichloromethane:Methanol [9:1])

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.16	3.12	7.54
Found	57.96	3.02	7.44

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Description:

ATP-competitive Pim-1 kinase inhibitor that displays selectivity over Pim-2 and MEK1/2 (IC₅₀ values are 50, > 20000 and > 20000 nM for Pim-1, Pim-2 and MEK1/2 respectively).

Physical and Chemical Properties:

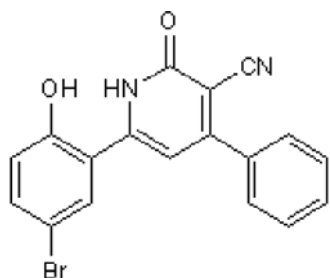
Batch Molecular Formula: C₁₈H₁₁BrN₂O₂·¼H₂O

Batch Molecular Weight: 371.7

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°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:

Cheney *et al* (2007) Identification and structure-activity relationships of substituted pyridones as inhibitors of Pim-1 kinase. *Bioorg.Med.Chem.Letts.* **17** 1679. PMID: 17251021.

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