

Product Name: Bobcat339

Catalog No.: 6977

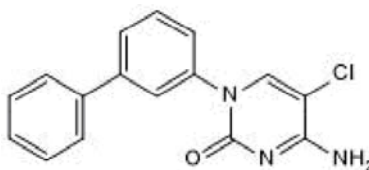
Batch No.: 1

CAS Number: 2280037-51-4

IUPAC Name: 4-Amino-1-[1,1'-biphenyl]-3-yl-5-chloro-2(1*H*)-pyrimidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₂ClN₃O.
Batch Molecular Weight: 297.74
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.54	4.06	14.11
Found	64.27	4	14

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

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Description:

Bobcat339 is a selective cytosine-based inhibitor of ten-eleven translocation methylcytosine dioxygenase (TET) (IC₅₀ values are 33 and 73 μM for TET1 and TET2, respectively). Bobcat339 reduces DNA 5-hydroxymethylcytosine (5hmC) levels in cells without inhibiting the DNA methyltransferase DNMT3a.

Physical and Chemical Properties:

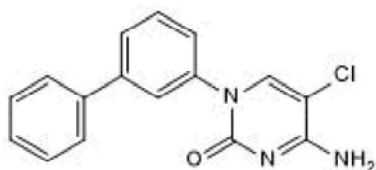
Batch Molecular Formula: C₁₆H₁₂ClN₃O.

Batch Molecular Weight: 297.74

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Blecua et al (2020) The DNA methylation landscape of hematological malignancies: an update. *Mol.Oncol.* **14** 1616. PMID: 32526054.

Chua et al (2019) Cytosine-based TET enzyme inhibitors. *ACS Med.Chem.Lett.* **10** 180. PMID: 30783500.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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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