

Product Name: CPI 203

Catalog No.: 5331

Batch No.: 1

CAS Number: 1446144-04-2

IUPAC Name: (6S)-4-(4-Chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepine-6-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₈ClN₅OS.H₂O

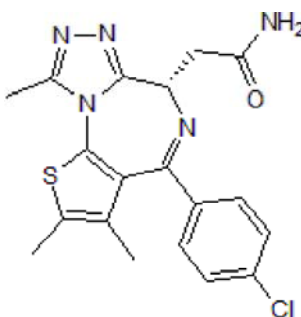
Batch Molecular Weight: 417.92

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.61	4.82	16.76
Found	54.44	4.65	16.71

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

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Description:

CPI 203 is a BET bromodomain inhibitor. Downregulates Myc expression, causes G₁ cell cycle arrest and attenuates cell proliferation in human pancreatic neuroendocrine tumors. Arrests the growth of T cell acute lymphoblastic leukemia cells in vitro (EC₅₀ = 91.2 nM). Also enhances the antitumor effect of rapamycin (Cat. No. 1292) in vitro and attenuates rapamycin induced Akt activation. Also enhances fibroblast reprogramming to hiPSCs at low concentration. Orally bioavailable.

Physical and Chemical Properties:

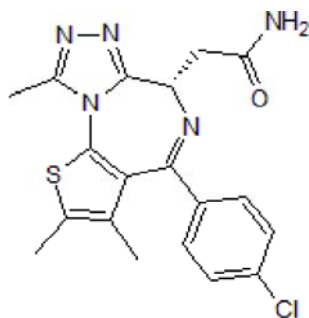
Batch Molecular Formula: C₁₉H₁₈ClN₅OS.H₂O

Batch Molecular Weight: 417.92

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Shao *et al* (2016) Reprogramming by de-bookmarking the somatic transcriptional program through targeting of BET bromodomains. *Cell Rep.* **16** 3138. PMID: 27653680.

Wong *et al* (2014) The bromodomain and extra-terminal inhibitor CPI203 enhances the antiproliferative effects of rapamycin on human neuroendocrine tumors. *Cell Death Dis.* **5** e1450. PMID: 25299775.

King *et al* (2013) The ubiquitin ligase FBXW7 modulates leukemia-initiating cell activity by regulating MYC stability. *Cell* **153** 1552. PMID: 23791182.

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