

Product Name: Ciclopirox

Catalog No.: 6384

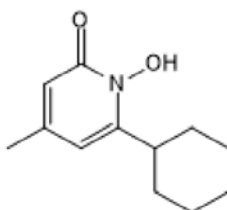
Batch No.: 1

CAS Number: 29342-05-0

IUPAC Name: 6-Cyclohexyl-1-hydroxy-4-methyl-2(1H)-pyridinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₇NO₂
Batch Molecular Weight: 207.27
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.54	8.27	6.76
Found	69.35	8.35	6.7

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

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Description:

Pan-histone demethylase inhibitor. Exhibits no significant effect on histone deacetylases. Inhibits MYC-signaling and proliferation of neuroblastoma cells. Promotes Cdc25A-degradation in cancer cells. Antifungal.

Physical and Chemical Properties:

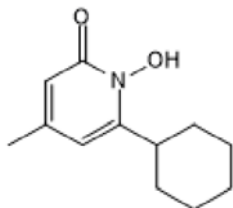
Batch Molecular Formula: C₁₂H₁₇NO₂

Batch Molecular Weight: 207.27

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Shen *et al* (2017) Ciclopirox inhibits cancer cell proliferation by suppression of Cdc25A. *Genes Cancer* **8** 505. PMID: 28680535.

Yang *et al* (2017) Targeting histone demethylases in MYC-driven neuroblastomas with ciclopirox. *Cancer Res.* **77** 4626. PMID: 28684529 .

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