

Product Name: Apcin

Catalog No.: 5747

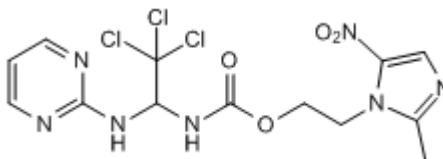
Batch No.: 1

CAS Number: 300815-04-7

IUPAC Name: 3-(2-Methyl-5-nitroimidazol-1-yl)-N-(2,2,2-trichloro-1-phenylaminoethyl)propionamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₄Cl₃N₇O₄
Batch Molecular Weight: 438.65
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 5 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.6	3.22	22.35
Found	35.72	3.27	22.01

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

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IUPAC Name: 3-(2-Methyl-5-nitroimidazol-1-yl)-N-(2,2,2-trichloro-1-phenylaminoethyl)propionamide

Description:

Cdc20 inhibitor; inhibits Cdc20-substrate interaction. Blocks substrate-mediated Cdc20 loading onto the anaphase-promoting complex (APC). Inhibits APC-dependent ubiquitylation. Prolongs mitotic duration in RPE1 cells in combination with proTAME (prodrug of TAME (Cat.No. 4506)) in vitro.

Physical and Chemical Properties:

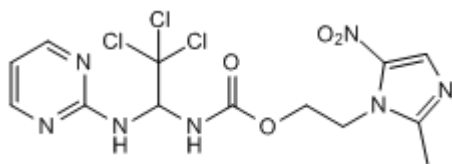
Batch Molecular Formula: C₁₃H₁₄Cl₃N₇O₄

Batch Molecular Weight: 438.65

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Wang et al (2015) Targeting Cdc20 as a novel cancer therapeutic strategy. *Pharmacol.Ther.* **151** 141. PMID: 25850036.

Sackton et al (2014) Synergistic blockade of mitotic exit by two chemical inhibitors of the APC/C. *Nature* **514** 646. PMID: 25156254.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 mM with gentle warming

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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