

Product Name: Apcin

Catalog No.: 5747

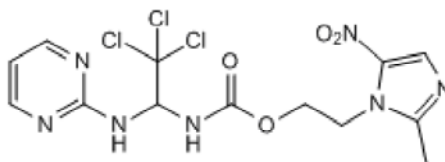
Batch No.: 1

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:	C ₁₃ H ₁₄ Cl ₃ N ₇ O ₄
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 98.4% 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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Description:

Apcin is a 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:

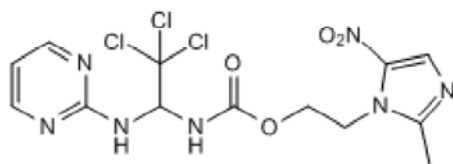
Batch Molecular Formula: C₁₃H₁₄Cl₃N₇O₄

Batch Molecular Weight: 438.65

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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.

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.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956