

Certificate of Analysis

Product Name: NSC 617145

Catalog No.: 5340

Batch No.: 1

CAS Number: 203115-63-3

IUPAC Name: 1,1'-(2,2-Dimethyl-1,3-propanediyl)bis[3,4-dichloro-1*H*-pyrrole-2,5-dione]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₀Cl₄N₂O₄·¼H₂O

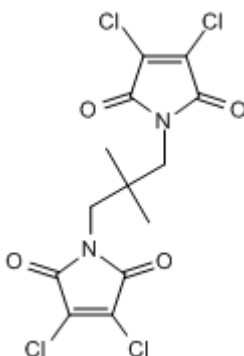
Batch Molecular Weight: 404.54

Physical Appearance: Off White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.6	2.62	6.92
Found	38.51	2.46	6.89

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

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Description:

Werner syndrome helicase (WRN) helicase inhibitor (IC₅₀ = 250 nM); acts synergistically with Mitomycin C (Cat. No. 3258) to induce double-strand breaks and chromosomal abnormalities in vitro.

Physical and Chemical Properties:

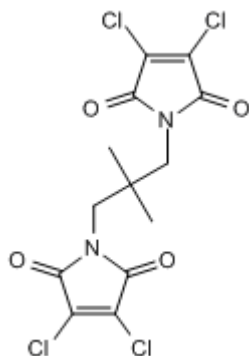
Batch Molecular Formula: C₁₃H₁₀Cl₄N₂O₄·¼H₂O

Batch Molecular Weight: 404.54

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Aggarwal et al (2013) Werner syndrome helicase has a critical role in DNA damage responses in the absence of a functional fanconi anemia pathway. *Cancer Res.* **73** 5497. PMID: 23867477.

Aggarwal et al (2013) Targeting an Achilles' heel of cancer with a WRN helicase inhibitor. *Cell Cycle* **12** 3329. PMID: 24036544.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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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