

Certificate of Analysis

Product Name: R11

Catalog No.: 6168

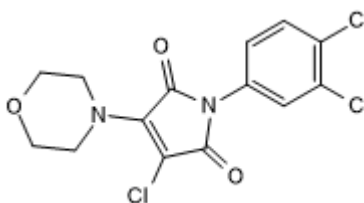
Batch No.: 1

CAS Number: 415713-60-9

IUPAC Name: 3-Chloro-1-(3,4-dichlorophenyl)-4-(4-morpholinyl)-1*H*-pyrrole-2,5-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₁Cl₃N₂O₃
Batch Molecular Weight: 361.61
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.5	3.07	7.75
Found	46.59	3.04	7.52

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

Product Name: RI1

Catalog No.: 6168

Batch No.: 1

CAS Number: 415713-60-9

IUPAC Name: 3-Chloro-1-(3,4-dichlorophenyl)-4-(4-morpholinyl)-1H-pyrrole-2,5-dione

Description:

RAD51 inhibitor (IC₅₀ is in the range 5 - 30 μM). Covalently binds C139 on protein surface. Inhibits homologous recombination. Cell permeable. Sensitizes tumor cells to chemotherapy.

Physical and Chemical Properties:

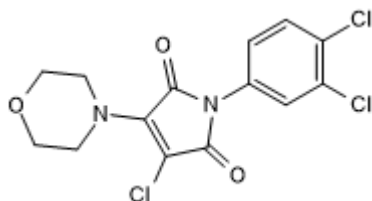
Batch Molecular Formula: C₁₄H₁₁Cl₃N₂O₃

Batch Molecular Weight: 361.61

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Budke et al (2012) RI-1: a chemical inhibitor of RAD51 that disrupts homologous recombination in human cells. *Nucleic Acids Res.* **40** 7347. PMID: 22573178.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

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