

Certificate of Analysis

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Product Name: WIN 18446

Catalog No.: 4736

Batch No.: 2

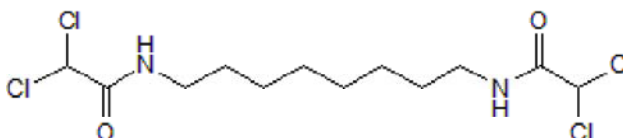
CAS Number: 1477-57-2

EC Number: 216-033-0

IUPAC Name: *N,N'*-1,8-Octanediyldis(2,2-dichloroacetamide)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₂₀Cl₄N₂O₂
Batch Molecular Weight: 366.11
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	39.37	5.51	7.65
Found	39.37	5.46	7.45

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

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Description:

Inhibitor of aldehyde dehydrogenase 1a2 (ALDH1a2) (IC_{50} = 0.3 μ M). Inhibits the biosynthesis of retinoic acid from retinol in neonatal and adult murine testis.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{12}H_{20}Cl_4N_2O_2$

Batch Molecular Weight: 366.11

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

References:

Amory et al (2011) Suppression of spermatogenesis by bisdichloroacetyldiamines is mediated by inhibition of testicular retinoic acid biosynthesis. *J.Androl.* **32** 111. PMID: 20705791.

Hogarth et al (2011) Suppression of *Strab* expression in the mouse gonad by WIN 18,446. *Biol.Reprod.* **84** 957. PMID: 21209416.

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