

Certificate of Analysis

www.tocris.com

Product Name: WIN 18446

Catalog No.: 4736

Batch No.: 3

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.

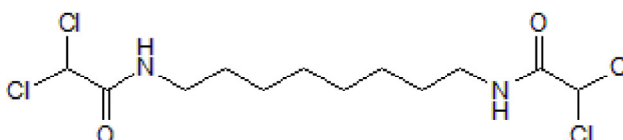
Batch Molecular Weight: 366.11

Physical Appearance: White solid

Solubility: DMSO to 100 mM

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	39.3	5.5	7.56

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

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

Product Name: WIN 18446

Catalog No.: 4736

3

CAS Number: 1477-57-2

EC Number: 216-033-0

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

Description:

WIN 18446 is an inhibitor of aldehyde dehydrogenase 1a2 (ALDH1a2) (IC₅₀ = 0.3 μM). Inhibits the biosynthesis of retinoic acid from retinol in neonatal and adult murine testis.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₂H₂₀Cl₄N₂O₂.

Batch Molecular Weight: 366.11

Physical Appearance: White solid

Batch Molecular Structure:



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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 *Stra8* expression in the mouse gonad by WIN 18,446. *Biol.Reprod.* **84** 957. PMID: 21209416.

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

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