

Certificate of Analysis

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Product Name: TC-E 5003

Catalog No.: 5099

Batch No.: 1

CAS Number: 17328-16-4

IUPAC Name: *N,N'*-(Sulfonyldi-4,1-phenylene)bis(2-chloroacetamide)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄Cl₂N₂O₄S·H₂O

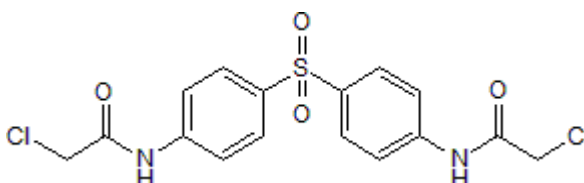
Batch Molecular Weight: 419.28

Physical Appearance: Off-white solid

Solubility: DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Ethyl acetate)

HPLC: Shows >98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.83	3.85	6.68
Found	45.9	3.85	6.56

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

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Description:

Selective protein arginine methyltransferase 1 (PRMT1) inhibitor (IC₅₀ = 1.5 μM); exhibits no inhibitory activity against CARM1 and Set7/9 methyltransferases. Inhibits growth of MCF7a breast cancer cells and LNCaP prostate cancer cells. Attenuates androgen-induced gene expression in LNCaP cells.

Physical and Chemical Properties:

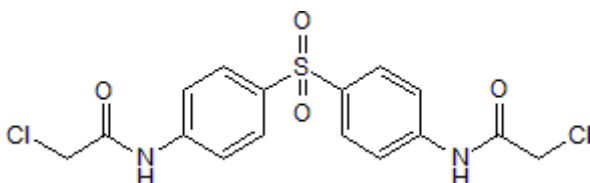
Batch Molecular Formula: C₁₆H₁₄Cl₂N₂O₄S.H₂O

Batch Molecular Weight: 419.28

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Bissinger et al (2011) Acyl derivatives of *p*-aminosulfonamides and dapsones as new inhibitors of the arginine methyltransferase hPRMT1. *Bioorg.Med.Chem.* **19** 3717. PMID: 21440447.

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