



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: $C_{16}H_{14}CI_2N_2O_4S.H_2O$

Batch Molecular Weight: 419.28

Physical Appearance: Off-white powder

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

ReD



Product Information

Print Date: May 8th 2014

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

Description:

Selective protein arginine methyltransferase 1 (PRMT1) inhibitor (IC $_{50}$ = 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:

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Batch Molecular Weight: 419.28

Physical Appearance: Off-white powder

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 dapsone as new inhibitors of the arginine methyltransferase hPRMT1. Bioorg.Med.Chem. *19* 3717. PMID: 21440447.

