

Certificate of Analysis

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Product Name: Furamide dihydrochloride

Catalog No.: 5202

Batch No.: 1

CAS Number: 55368-40-6

IUPAC Name: 4,4'-(2,5-Furandiyl)bis-benzenecarboximidamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆N₄O.2HCl.¾H₂O

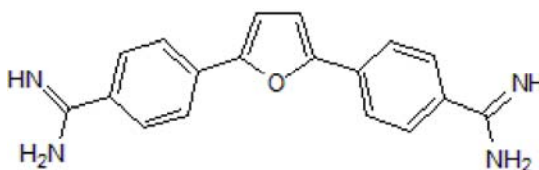
Batch Molecular Weight: 390.78

Physical Appearance: Yellow solid

Solubility: water to 50 mM
DMSO to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2HCl

2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.32	5.03	14.34
Found	55.36	5.07	14.14

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 = 9.4 μM). Exhibits selectivity over PRMT5, PRMT6 and CARM1 (IC₅₀ values are 166, 283 and >400 μM respectively). Inhibits cell proliferation in leukemia cell lines. Cell-permeable.

Physical and Chemical Properties:

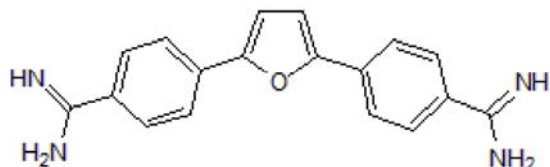
Batch Molecular Formula: C₁₈H₁₆N₄O.2HCl.¼H₂O

Batch Molecular Weight: 390.78

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



2HCl

Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM

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:

Yan *et al* (2014) Diamidine compounds for selective inhibition of protein arginine methyltransferase 1. *J.Med.Chem.* **57** 2611. PMID: 24564570.

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