TOCRIS bioscience

Print Date: Dec 14th 2011

Certificate of Analysis

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Product Name: iCRT 14 **Catalog No.: 4299** **Batch No.: 1**

CAS Number: 677331-12-3

IUPAC Name: 5-[[2,5-Dimethyl-1-(3-pyridinyl)-1*H*-pyrrol-3-yl]methylene]-3-phenyl-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{17}N_3O_2S$

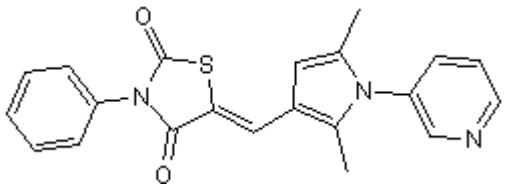
Batch Molecular Weight: 375.44

Physical Appearance: Beige solid

Solubility: DMSO to 75 mM
ethanol to 5 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.18	4.56	11.2
Found	67.09	4.57	11.2

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Description:

Potent inhibitor of β-catenin-responsive transcription (CRT) (IC_{50} = 40.3 nM in assays of Wnt pathway activity). Thought to directly influence the interaction between β-catenin and TCF4. Induces marked G_0/G_1 cell cycle arrest in HCT-116 and HT29 cell lines.

Physical and Chemical Properties:

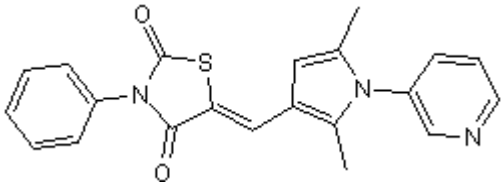
Batch Molecular Formula: $C_{21}H_{17}N_3O_2S$

Batch Molecular Weight: 375.44

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Useage Info:

DMSO to 75 mM
ethanol to 5 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:

Gonsalves *et al* (2011) An RNAi-based chemical genetic screen identifies three small-molecule inhibitors of the Wnt/wingless signaling pathway. Proc.Natl.Acad.Sci.USA ***108*** 5954.

Watanabe and Dai (2011) Winning WNT: race to Wnt signaling inhibitors. Proc.Natl.Acad.Sci.USA ***108*** 5929.