

Product Name: iCRT 14

Catalog No.: 4299

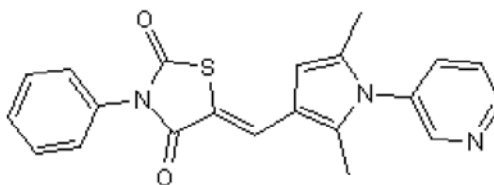
Batch No.: 1

CAS Number: 677331-12-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₇N₃O₂S
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
¹H 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

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

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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 G₀/G₁ cell cycle arrest in HCT-116 and HT29 cell lines. Also acts as transfection enhancer; enhances transgene expression in PC-3 cells by 16 to 35-fold using nonviral systems.

Physical and Chemical Properties:

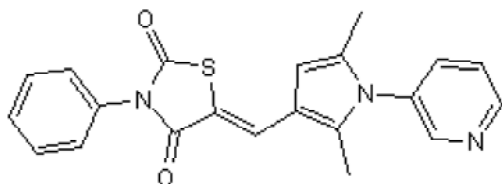
Batch Molecular Formula: C₂₁H₁₇N₃O₂S

Batch Molecular Weight: 375.44

Physical Appearance: Beige solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Spivack et al (2021) Enhancement of transgene expression by the β -catenin inhibitor iCRT14. Plasmid. PMID: 33472046.

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.

Storage: Store at +4°C

Solubility & Usage 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.

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