

Product Name: SirReal 2

Catalog No.: 5457

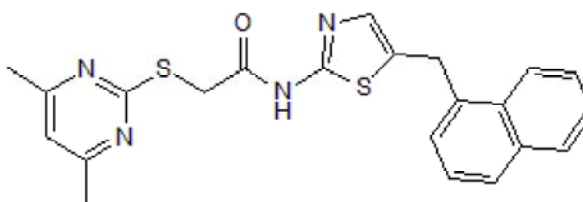
Batch No.: 1

CAS Number: 709002-46-0

IUPAC Name: 2-[(4,6-Dimethyl-2-pyrimidinyl)thio]-N-[5-(1-naphthalenylmethyl)-2-thiazolyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₀N₄OS₂
Batch Molecular Weight: 420.55
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.83	4.79	13.32
Found	62.86	4.78	13.17

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

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Description:

Selective SIRT2 inhibitor (IC₅₀ = 140 nM). Has minimal effect on SIRT1 and SIRT3-6. Increases α-tubulin acetylation levels in HeLa cells.

Physical and Chemical Properties:

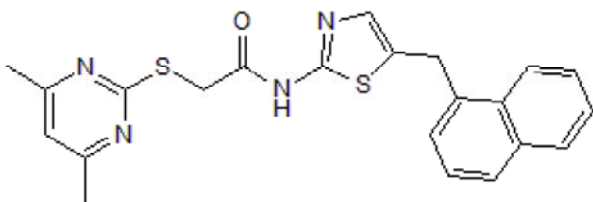
Batch Molecular Formula: C₂₂H₂₀N₄OS₂

Batch Molecular Weight: 420.55

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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:

Rumpf et al (2015) Selective SIRT2 inhibition by ligand-induced rearrangement of the active site. *Nat.Commun.* **6** 6263. PMID: 25672491.

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