

Product Name: Remodelin

Catalog No.: 5193

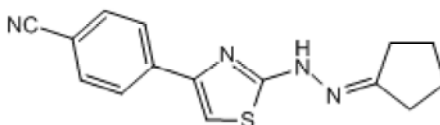
Batch No.: 1

CAS Number: 949912-58-7

IUPAC Name: 4-[2-(2-Cyclopentylidenehydrazinyl)-4-thiazolyl]benzonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₄N₄S
Batch Molecular Weight: 282.36
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Dichloromethane)
HPLC: Shows >99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.8	5	19.84
Found	63.7	4.95	19.75

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

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IUPAC Name: 4-[2-(2-Cyclopentylidenehydrazinyl)-4-thiazolyl]benzonitrile

Description:

N-acetyltransferase 10 (NAT10) inhibitor. Improves nuclear shape in HGPS (Hutchinson-Gilford progeria syndrome) cells and lamin A/C depleted cells.

Physical and Chemical Properties:

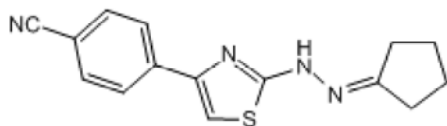
Batch Molecular Formula: C₁₅H₁₄N₄S

Batch Molecular Weight: 282.36

Physical Appearance: Yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

Larrieu *et al* (2014) Chemical inhibition of NAT10 corrects defects of laminopathic cells. *Science* **344** 527. PMID: 24786082.

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