

Product Name: Capzimin dimer

Catalog No.: 6781

Batch No.: 1

CAS Number: 2084868-04-0

IUPAC Name: 8,8'-Dithiobis[N-[2-(2-thiazolyl)ethyl]-3-quinolinecarboxamide]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₂₄N₆O₂S₄·½H₂O

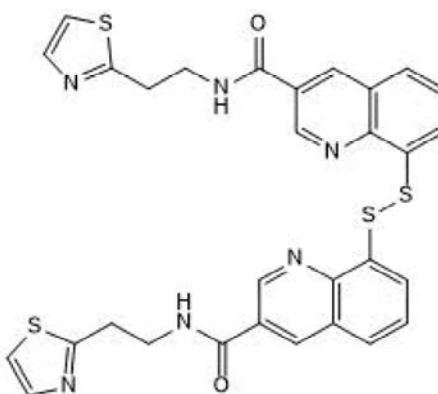
Batch Molecular Weight: 633.3

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.9	3.9	13.27
Found	56.81	3.8	13.17

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

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Description:

Capzimin dimer is a specific inhibitor of proteasome isopeptidase Rpn11 (IC₅₀ = 2.1 μM and 3.8 μM, in 293T and A549 cell lines, respectively). It exhibits 80-fold selectivity for Rpn11 over Csn5, ten-fold over AMSH and six-fold over BRCC36 (IC₅₀ = 30 μM, 4.5 μM, and 2.3 μM, respectively). Capzimin dimer blocks proliferation of cancer cells.

Physical and Chemical Properties:

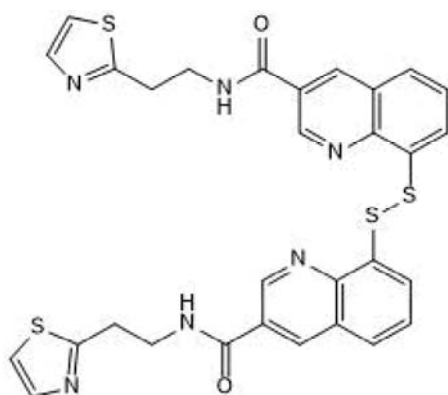
Batch Molecular Formula: C₃₀H₂₄N₆O₂S₄·1/4H₂O

Batch Molecular Weight: 633.3

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Li *et al* (2017) Capzimin is a potent and specific inhibitor of proteasome isopeptidase Rpn11. *Nat.Chem.Biol.* **13** 486. PMID: 28244987.

Perez *et al* (2017) Discovery of an inhibitor of the proteasome subunit Rpn11. *J.Med.Chem.* **60** 1343. PMID: 28191850 .

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.

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