

Product Name: RCM 1

Catalog No.: 6845

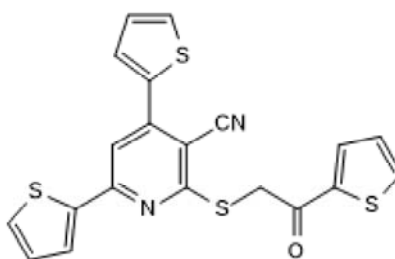
Batch No.: 1

CAS Number: 339163-65-4

IUPAC Name: 2-[[2-Oxo-2-(2-thienyl)ethyl]thio]-4,6-di-2-thienyl-3-pyridinecarbonitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₂N₂OS₄
Batch Molecular Weight: 424.58
Physical Appearance: Off White solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.58	2.85	6.6
Found	56.61	2.81	6.61

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

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Description:

Forkhead box M1 (FOXM1) transcription factor inhibitor (IC₅₀ = 0.72 μM). Inhibits expression of FOXM1 target genes. Induces FOXM1 protein degradation in vitro. Reduces airway resistance, increases lung compliance and decreases proinflammatory cytokine production in allergen-exposed mice.

Physical and Chemical Properties:

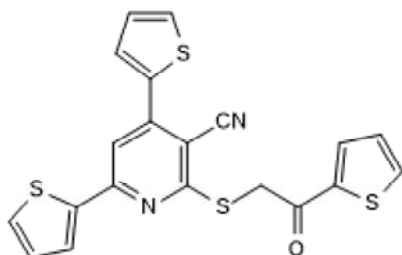
Batch Molecular Formula: C₂₀H₁₂N₂OS₄

Batch Molecular Weight: 424.58

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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:

Sun *et al* (2017) The FOXM1 inhibitor RCM-1 suppresses goblet cell metaplasia and prevents IL-13 and STAT6 signaling in allergen-exposed mice. *Sci.Signal.* **10** eaai8583. PMID: 28420758.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956