

Product Name: Colchicine

Catalog No.: 1364

Batch No.: 6

CAS Number: 64-86-8

EC Number: 200-598-5

IUPAC Name: (S)-N-(5,6,7,9-Tetrahydro-1,2,3,10-tetramethoxy-9-oxobenzo[a]heptalen-7-yl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₅NO₆·¹/₄H₂O

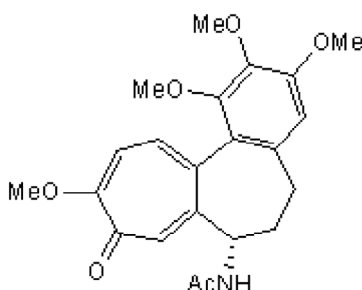
Batch Molecular Weight: 403.94

Physical Appearance: Off White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -113.7 (Concentration = 0.9, Solvent = Chloroform)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.42	6.36	3.47
Found	64.98	6.45	3.27

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

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Description:

Colchicine is a plant-derived alkaloid that binds to tubulin and depolymerizes microtubules. Identified as a candidate for repurposing for COVID-19. Inhibits NLRP3 inflammasomes. Also decreases TNF- α receptor expression and reduces cytokine levels in macrophages. Anti-inflammatory.

Physical and Chemical Properties:

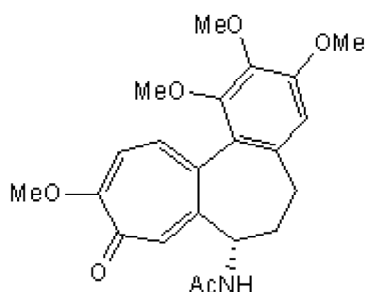
Batch Molecular Formula: C₂₂H₂₅NO₆. $\frac{1}{4}$ H₂O

Batch Molecular Weight: 403.94

Physical Appearance: Off White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

Solutions in water may appear hazy or as a fine suspension

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Morselli et al (2021) Network medicine framework for identifying drug repurposing opportunities for COVID-19. *Proc.Nat.Acad.Sci.U.S.A.* **118**. PMID: 33906951.

Ribeiro et al (2020) The therapeutic potential of colch in the complications of COVID19. Could the immunometabolic properties of an old and cheap drug help? *Metabol.Open* **7** 100045. PMID: 32808940.

Martinez et al (2018) The NLRP3 inflammasome and the emerging role of colch to inhibit atherosclerosis-associated inflammation. *Atherosclerosis* **269** 262. PMID: 29352570.

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