

**Product Name:** Colchicine

**Catalog No.:** 1364

**Batch No.:** 5

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:** C<sub>22</sub>H<sub>25</sub>NO<sub>6</sub>·½H<sub>2</sub>O

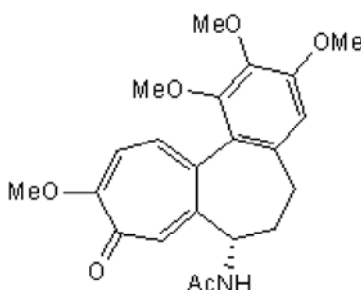
**Batch Molecular Weight:** 408.45

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -113.1 (Concentration = 0.9, Solvent = Chloroform)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.69	6.42	3.43
Found	64.82	6.52	3.35

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

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**Description:**

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- $\alpha$  receptor expression and reduces cytokine levels in macrophages. Anti-inflammatory.

**Physical and Chemical Properties:**

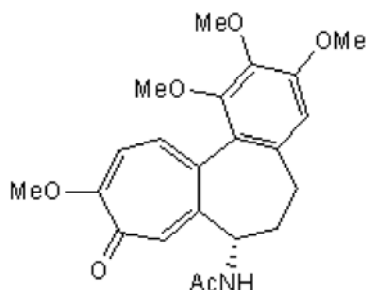
Batch Molecular Formula: C<sub>22</sub>H<sub>25</sub>NO<sub>6</sub>.½H<sub>2</sub>O

Batch Molecular Weight: 408.45

Physical Appearance: White solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 100 mM

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:**

**Morselli *et al* (2020)** Network medicine framework for identifying drug repurposing opportunities for COVID-19. arXiv - Paper not yet peer reviewed. PMID: 32550253.

**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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