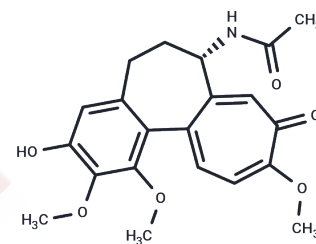


## 3-demethylcolchicine

## Chemical Properties

CAS No. :	7336-33-6
Formula:	C <sub>21</sub> H <sub>23</sub> N <sub>1</sub> O <sub>6</sub>
Molecular Weight:	385.41
Storage:	Store at low temperature, Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	3-demethylcolchicine is a natural product isolated from <i>Gloriosa superba</i> . Inhibitory effect on the polymerization of purified bovine brain tubulin.
Targets(IC50)	Reactive Oxygen Species, ROS
In vitro	3-demethylcolchicine showed an appreciable effect in vitro and in vivo, in the lymphocytic leukemia P388 screen in mice, for their toxicity in mice, and for their binding to microtubule protein.

## Solubility Information

Solubility	DMSO: 10 mg/mL (25.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.59 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	2.5946 mL	12.9732 mL	25.9464 mL
5 mM	0.5189 mL	2.5946 mL	5.1893 mL
10 mM	0.2595 mL	1.2973 mL	2.5946 mL
50 mM	0.0519 mL	0.2595 mL	0.5189 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

M Rösner, H G Capraro, A E Jacobson et al. Biological effects of modified colchicines. Improved preparation of 2-demethylcolchicine, 3-demethylcolchicine, and (+)-colchicine and reassignment of the position of the double bond in dehydro-7-deacetamidocolchicines. *J Med Chem.* 1981 Mar;24(3):257-61.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481