

(R)-Colchicine

Chemical Properties

CAS No. :	75520-89-7
Formula:	C ₂₂ H ₂₅ N ₀ O ₆
Molecular Weight:	399.44
Storage:	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	(R)-Colchicine is the R-isomer of Colchicine. Colchicine is an orally active alkaloid that serves as an effective microtubule protein inhibitor and disruptor. It inhibits microtubule polymerization with an IC ₅₀ of 3 nM and acts as a competitive antagonist of the α 3 glycine receptor (GlyR). Additionally, Colchicine prevents NSAID-induced small intestinal injury by inhibiting the activation of the NLRP3 inflammasome. It exhibits extensive anti-inflammatory, immunosuppressive, and potent antifibrotic effects, with potential applications in gouty arthritis research.
Targets(IC ₅₀)	Apoptosis, NOD-like Receptor (NLR), Autophagy

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5035 mL	12.5175 mL	25.035 mL
5 mM	0.5007 mL	2.5035 mL	5.007 mL
10 mM	0.2504 mL	1.2518 mL	2.5035 mL
50 mM	0.0501 mL	0.2504 mL	0.5007 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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