

Product Name: Nocodazole Revision Date: 01/13/2025 Product Data Sheet

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Nocodazole

	ion.	
Cat. No.:	A8487 2010	
CAS No.:	31430-18-9	
Formula:	C14H11N3O3S	
M.Wt:	301.32	
Synonyms:		
Target:	Ubiquitination/ Proteasome	
Pathway:	Autophagy	
Storage:	Store at -20°C	

Solvent & Solubility

insoluble in H2O; insoluble in EtOH; ≥15.066 mg/mL in DMSO

In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	3.3187 mL	16.5937 mL	33.1873 mL
		5 mM	0.6637 mL	3.3187 mL	6.6375 mL
		10 mM	0.3319 mL	1.6594 mL	3.3187 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

 Shortsummary
 Tubulin production inhibitor,anti-neoplastic agent

 IC50 & Target
 Cell Viability Assay

 Cell Viability Assay
 Cell Line:
 SH-SY5Y cells, NRK fibroblasts

 Preparation method:
 The solubility of this compound in DMSO is >15.1mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

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	Reacting conditions:	25 nM to 400 nM, 1 μM; 30 min				
	Applications:	In SH-SY5Y cells, Nocodazole (1 μ M) disrupted microtubules by binding to				
		β -tubulin, prevented the formation of one of the two interchain disulfide				
		linkages and impaired the transport of vesicles. Nocodazole significantly				
	BUnnow	attenuated METH-induced cell death and lysosomal dysfunction. Nocodazole				
	Capacitie C	(400 nM) completely inhibited cell locomotion that was maintained throughout				
	Prove Perfection	the nocodazole treatment (>2 hours), Nocodazole treatment resulted in a				
	and them	dose-dependent decrease in the rate of locomotion. Nocodazole (25 nM, 100				
		nM) significantly inhibited cell locomotion.				
	Animal experiment	Animal experiment				
	Animal models:	Athymic mice bearing COLO 205 tumor xenografts				
	Dosage form:	5 mg/kg/three times per week				
	Applications:	The antitumor effects of nocodazole were significantly potentiated by				
In Vivo	.0.	ketoconazole in mice after 6 wk of treatment. No gross signs of toxicity were				
	Bine Unicount	observed in mice receiving these treatments.				
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may				
there's and		slightly differ with the theoretical value. This is caused by an experimental				
		system error and it is normal.				

Product Citations

1. Wang H, Liu W, et al. "Inhibitor analysis revealed that clathrin-mediated endocytosis is involed in cellular entry of type III grasscarp reovirus." Virol J. 2018 May 24;15(1):92.PMID:29793525

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References

[1]. Liao G, Nagasaki T, Gundersen G G. Low concentrations of nocodazole interfere with fibroblast locomotion without significantly affecting microtubule level: implications for the role of dynamic microtubules in cell locomotion[J]. Journal of Cell Science, 1995, 108(11): 3473-3483.

[2]. Liao G, Nagasaki T, Gundersen G G. Low concentrations of nocodazole interfere with fibroblast locomotion without significantly affecting microtubule level: implications for the role of dynamic microtubules in cell locomotion[J]. Journal of Cell Science, 1995, 108(11): 3473-3483.



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Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage **2** | www.apexbt.com

temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.





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