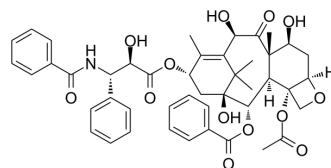


10-Deacetyltaxol

Cat. No.:	HY-N1391		
CAS No.:	78432-77-6		
Molecular Formula:	C ₄₅ H ₄₉ NO ₁₃		
Molecular Weight:	811.87		
Target:	Microtubule/Tubulin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (153.97 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.2317 mL	6.1586 mL	12.3172 mL
		5 mM		0.2463 mL	1.2317 mL	2.4634 mL
10 mM			0.1232 mL	0.6159 mL	1.2317 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (7.70 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (7.70 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	10-Deacetyltaxol (10-Deacetylpaclitaxel) is a taxane derivative isolated from <i>Taxus wallichiana</i> Zucc ^[1] . 10-Deacetyltaxol (10-Deacetylpaclitaxel) promotes the polymerization of tubulin and to inhibit the depolymerization of microtubules induced by cold or by calcium ions in vitro ^[2] . 10-Deacetyltaxol (10-Deacetylpaclitaxel) exhibits cytotoxicity in human glial and neuroblastoma cell-lines ^[3] .
IC ₅₀ & Target	tubulin ^[2]

REFERENCES

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- [1]. 19-Hydroxybaccatin III, 10-deacetylcephalomannine, and 10-deacetyltaxol: new antitumor taxanes from *Taxus wallichiana*. *J Nat Prod.* 1981 May-Jun;44(3):312-9.
- [2]. Michel Colin, et al. Process for the preparation of taxol and 10-deacetyltaxol. US4857653A.
- [3]. Helson L. Cephalomannine and 10-deacetyltaxol cytotoxicity in human glial and neuroblastoma cell-lines. *Int J Oncol.* 1993 Feb;2(2):297-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA