

Product Name:	Paclitaxel (Taxol)
Product Number:	P045
CAS Number:	33069-62-4
Molecular Formula:	$C_{47}H_{51}NO_{14}$
Molecular Weight:	853.91
Form:	Powder
Solubility:	Water: 50 mg/mL
Storage Conditions:	2-8°C
Description:	Paclitaxel is a unique anti-tumor agent derived from the bark of the Pacific Yew tree. Pacitaxel is sparingly soluble in ethanol, DMSO, and DMF.
Mechanism of Action:	Paclitaxel prevents tumor growth by stabilizing microtubules during mitosis in the G2/M growth phase leading to cell death.
Cancer Applications	Paclitaxel can be used to study effects on actively dividing tumor cells.
References:	Fiser, Andras, et al. "Insights into the Mechanism of Microtubule Stabilization by Taxol." PNAS 103.27 (2006): 10166-0173. Pnas.org. Web. 21 June 2013. Horwitz, S. B. "Taxol (paclitaxel): Mechanisms of Action." Annals of Oncology 6th ser. 6 (1994): n. pag. Ncbi.gov. Web. 21 June 2013