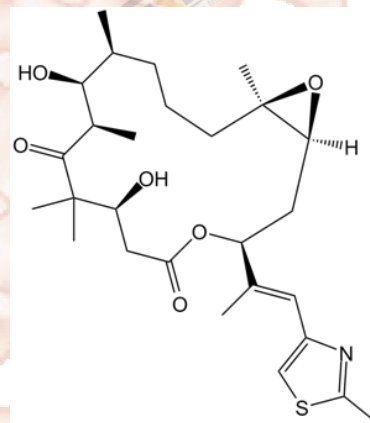


## Product Data Sheet

### Epothilone B (EPO906, Patupilone)

<b>Cat. No.:</b>	A1630
<b>CAS No.:</b>	152044-54-7
<b>Formula:</b>	C <sub>27</sub> H <sub>41</sub> NO <sub>6</sub> S
<b>M.Wt:</b>	507.68
<b>Synonyms:</b>	
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	Microtubule/Tubulin
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥ 25.4 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥ 12.44 mg/mL in EtOH

In Vitro	Preparing Stock Solutions	Mass			
		Solvent	1mg	5mg	10mg
		Concentration			
		1 mM	1.9697 mL	9.8487 mL	19.6974 mL
		5 mM	0.3939 mL	1.9697 mL	3.9395 mL
		10 mM	0.1970 mL	0.9849 mL	1.9697 mL

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

### Biological Activity

Shortsummary

Microtubule stabilizing macrolide

IC<sub>50</sub> & Target

3 nM (Hs578T cells), 32 nM (HeLa cells), 16 nM (KB3-1 cells), 92 nM (KBV-1 cells)

In Vitro

#### Cell Viability Assay

Cell Line: Hs578T and Hela cells

Preparation method: The solubility of this compound in DMSO is > 25.4 mg/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.

	Reacting conditions:	100 nM; 24 hrs
	Applications:	In Hs578T and Hela cells, Epothilone B arrested cells at the G2-M phase, causing cytotoxicity. In Hs578T cells treated with Epothilone B, there was a larger percentage (up to 38%) of cells showing multinucleation.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Mouse xenograft models of RPMI 8226 cells
	Dosage form:	1-time dose at 4 mg/kg or weekly dose at 2.5 mg/kg (given on days 6, 13, 20 and 27); i.v.
	Applications:	In mouse xenograft models of RPMI 8226 cells, Epothilone B (2.5 ~ 4 mg/kg) prolonged survival and inhibited tumor growth.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1]. Regueiro-Ren A1, Borzilleri RM, Zheng X, Kim SH, Johnson JA, Fairchild CR, Lee FY, Long BH, Vite GD. Synthesis and biological activity of novel epothilone aziridines. *Org Lett.* 2001 Aug 23;3(17):2693-6
- [2]. Bollag DM, McQueney PA, Zhu J, Hensens O, Koupal L, Liesch J, Goetz M, Lazarides E, Woods CM. Epothilones, a new class of microtubule-stabilizing agents with a taxol-like mechanism of action. *Cancer Res.* 1995 Jun 1;55(11):2325-33.
- [3]. Lin B, Catley L, LeBlanc R, Mitsiades C, Burger R, Tai YT, Podar K, Wartmann M, Chauhan D, Griffin JD, Anderson KC. Patupilone (epothilone B) inhibits growth and survival of multiple myeloma cells in vitro and in vivo. *Blood.* 2005 Jan 1;105(1):350-7.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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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**APEx BIO Technology**

**[www.apexbt.com](http://www.apexbt.com)**

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

