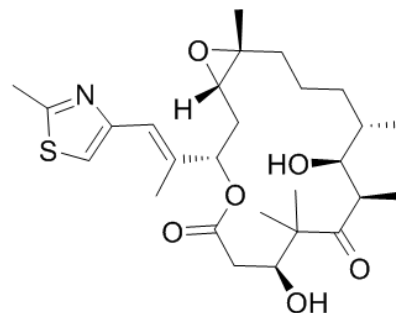


**Product Name** : Epothilone B  
**Cat. No.** : PC-45151  
**CAS No.** : 152044-54-7  
**Molecular Formula** : C<sub>27</sub>H<sub>41</sub>NO<sub>6</sub>S  
**Molecular Weight** : 507.6825  
**Target** : Microtubule/Tubulin  
**Solubility** : 10 mM in DMSO



## Biological Activity

A blood-brain barrier-permeable microtubule-stabilizing agent that promotes tubulin polymerization and induces G2-M cell cycle arrest with EC<sub>50</sub> of 32 nM in HeLa cells; exhibits potent cytotoxicity in MCF-7 and A549 cells (EC<sub>50</sub>=0.3 and 2.7 nM respectively), and inhibits growth of HCT-15 tumors in mice in vivo; decreases scarring after rodent spinal cord injury by abrogating polarization and directed migration of scar-forming fibroblasts.

## References

- Narvi E, et al. *Br J Cancer*. 2013 Jan 15;108(1):82-90.  
Ruschel J, et al. *Science*. 2015 Apr 17;348(6232):347-52.  
O'Reilly T, et al. *Cancer Chemother Pharmacol*. 2008 Nov;62(6):1045-54.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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