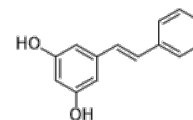


**Product Name** : Pinosylvin  
**Cat. No.** : PC-24833  
**CAS No.** : 22139-77-1  
**Molecular Formula** : C<sub>14</sub>H<sub>12</sub>O<sub>2</sub>  
**Molecular Weight** : 212.25  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



### Biological Activity

Pinosylvin is a naturally occurring molecule traditionally found in pinus trees with antibacterial, antifungal and anticancer activity, shows potent growth inhibitory activity against *Candida albicans* and *Saccharomyces cerevisiae*.

Pinosylvin selectively inhibits LPS- and RANKL-induced release of IL-1beta effectively reducing osteoclastogenesis. Pinosylvin significantly inhibits the release of pro-inflammatory cytokines (TNF-α and IL-6) and NO mediator in LPS-stimulated RAW 264.7 cells.

Pinosylvin showed its anti-inflammatory activity by inhibiting the PGE2 production mediated by COX-2 in RAW 264.7 cells treated with LPS (1 μg/mL) with an IC50 value of 10.6 μM.

Pinosylvin inhibits migration and invasion of nasopharyngeal carcinoma cancer cells via regulation of epithelial-mesenchymal transition and inhibition of MMP-2.

### References

- Perri MR, et al. Pharmaceuticals (Basel). 2023 May 9;16(5):718.  
Zhang W, et al. Adv Sci (Weinh). 2025 Jun 10:e01532.  
Chuang YC, et al. Oncol Rep. 2021 Jul;46(1):143. doi: 10.3892/or.2021.8094.

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

E-mail: tech@probechem.com