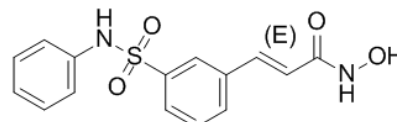


**Product Name** : Belinostat  
**Cat. No.** : PC-42469  
**CAS No.** : 866323-14-0  
**Molecular Formula** : C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>S  
**Molecular Weight** : 318.3477  
**Target** : HDAC  
**Solubility** : 10 mM in DMSO



## Biological Activity

Belinostat (PXD101, PX105684) is a potent **HDAC** inhibitor with IC<sub>50</sub> of 27 nM (HeLa cell extracts). Belinostat (PXD101, PX105684) inhibits histone deacetylase activity in cell lysates with IC<sub>50</sub> of 9-100 nM, increases the acetylation of histone H4 and induces apoptosis in tumor cell lines. Belinostat (PXD101, PX105684) inhibits the growth of a range of human tumor cell lines in vitro (IC<sub>50</sub>=0.2-3.4 μM). Belinostat (PXD101, PX105684) shows antitumor activity in vivo with no apparent toxicity.

## References

- Plumb JA, et al. *Mol Cancer Ther.* 2003 Aug;2(8):721-8.  
Qian X, et al. *Mol Cancer Ther.* 2006 Aug;5(8):2086-95.  
Buckley MT, et al. *J Transl Med.* 2007 Oct 12;5:49.

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

E-mail: tech@probechem.com