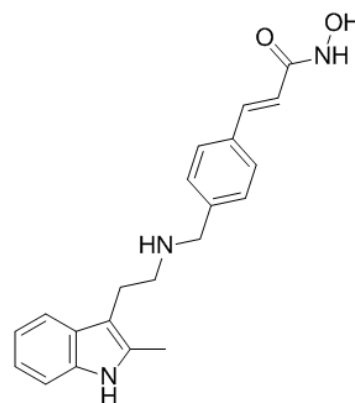


**Product Name** : Panobinostat  
**Cat. No.** : PC-42468  
**CAS No.** : 404950-80-7  
**Molecular Formula** : C<sub>21</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 349.4262  
**Target** : HDAC  
**Solubility** : DMSO: ≥ 57 mg/mL



## Biological Activity

Panobinostat (LBH589, NVP-LBH589) is a potent, broad-spectrum **HDAC** inhibitor with IC<sub>50</sub> of 5-20 nM in cell-free assays. Panobinostat (LBH589, NVP-LBH589) induces cell-cycle arrest, apoptosis, and histone (H3K9 and H4K8) hyperacetylation. Panobinostat (LBH589, NVP-LBH589) increases mRNA levels of proapoptosis, growth arrest, and DNA damage repair genes including FANCG, FOXO3A, GADD45A, GADD45B, and GADD45G. Panobinostat (LBH589, NVP-LBH589) significantly slows tumor growth derived from Meso and NSCLC cells in vivo models.

## References

- Crisanti MC, et al. *Mol Cancer Ther.* 2009 Aug;8(8):2221-31.  
George P, et al. *Blood.* 2005 Feb 15;105(4):1768-76.  
Scuto A, et al. *Blood.* 2008 May 15;111(10):5093-100.

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

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