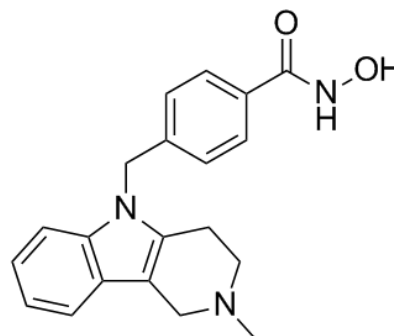


**Product Name** : Tubastatin A  
**Cat. No.** : PC-43451  
**CAS No.** : 1252003-15-8  
**Molecular Formula** : C<sub>20</sub>H<sub>21</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 335.40  
**Target** : HDAC  
**Solubility** : DMSO: ≥ 45 mg/mL



### Biological Activity

Tubastatin A is a potent and selective **HDAC6** inhibitor with IC<sub>50</sub> of 15 nM in cell-free assays. Tubastatin A displays 57-fold selectivity over HDAC8 and >1,000-fold selective against other HDAC isoforms. Tubastatin A induces an increase in acetylated- $\alpha$ -tubulin levels and the restoration of primary cilia expression in the cholangiocarcinoma cell lines at 10  $\mu$ M, shows significant inhibition of TNF- $\alpha$  and IL-6 in LPS stimulated human THP-1 macrophages with IC<sub>50</sub> of 272 nM and 712 nM. Tubastatin A reduces the growth of cholangiocarcinoma in vivo.

### References

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Gradilone SA, et al. *Cancer Res.* 2013 Apr 1;73(7):2259-70.  
Vishwakarma S, et al. *Int Immunopharmacol.* 2013 May;16(1):72-8.

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

E-mail: tech@probechem.com