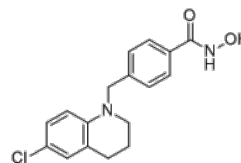


**Product Name** : SW-100  
**Cat. No.** : PC-35932  
**CAS No.** : 2126744-35-0  
**Molecular Formula** : C<sub>17</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 316.785  
**Target** : HDAC  
**Solubility** : 10 mM in DMSO



### Biological Activity

SW-100 (SW100) is a potent, selective, brain penetrable **HDAC6** inhibitor with IC<sub>50</sub> of 2.3 nM, displays >1,000-fold selectivity over all other class I, II, and IV HDAC isoforms.

SW-100 selectively inhibits HDAC6-CD2 and enhances  $\alpha$ -tubulin acetylation in cells with no effect on histone acetylation and selectively restores the impaired acetylated  $\alpha$ -tubulin levels in the hippocampus of Fmr1<sup>-/-</sup> mice.

SW-100 ameliorates several memory and learning impairments in Fmr1<sup>-/-</sup> mice, thus modeling the intellectual deficiencies associated with Fragile X syndrome (FXS).

### References

Kozikowski A, et al. *ACS Chem Neurosci*. 2018 Dec 4. doi: 10.1021/acscchemneuro.8b00600.

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

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