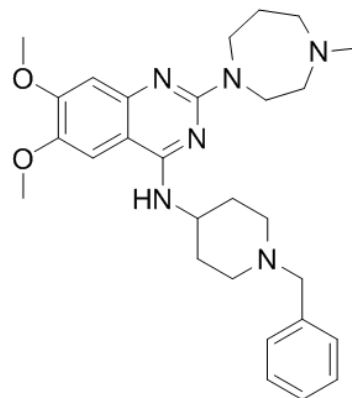


**Product Name** : BIX-01294  
**Cat. No.** : PC-42673  
**CAS No.** : 935693-62-2  
**Molecular Formula** : C<sub>28</sub>H<sub>38</sub>N<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 490.6403  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO  
4. Imai K, et al. J Biol Chem. 2010 May 28;285(22):16538-45.



## Biological Activity

A specific small molecule G9a histone methyltransferase inhibitor with IC<sub>50</sub> of 1.7 μM; weakly inhibits the closely related GLP enzyme (IC<sub>50</sub>=38 μM), no inhibition of the other HMTases (>45 μM); reduces H3K9me<sub>2</sub> of bulk histones in several cell lines, enables reprogramming of Oct4/Klf4-transduced mouse embryonic fibroblasts combined with BayK8644; also can reactivate expression of HIV-1 from latently infected cells.

## References

- Kubicek S, et al. Mol Cell. 2007 Feb 9;25(3):473-81.  
Shi Y, et al. Cell Stem Cell. 2008 Nov 6;3(5):568-74.  
Chang Y, et al. Nat Struct Mol Biol. 2009 Mar;16(3):312-7.

