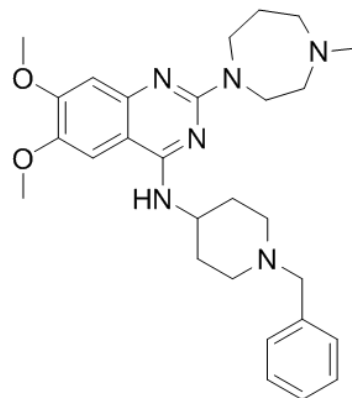


Product Name : BIX-01294
Cat. No. : PC-42673
CAS No. : 935693-62-2
Molecular Formula : C₂₈H₃₈N₆O₂
Molecular Weight : 490.6403
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



Biological Activity

BIX-01294 is a specific small molecule **G9a histone methyltransferase** inhibitor with IC₅₀ of 1.7 μM.

BIX-01294 weakly inhibits the closely related GLP enzyme (IC₅₀=38 μM), no inhibition of the other HMTases (>45 μM).

BIX-01294 reduces H3K9me2 of bulk histones in several cell lines, enables reprogramming of Oct4/Klf4-transduced mouse embryonic fibroblasts combined with BayK8644.

BIX-01294 also can reactivate expression of HIV-1 from latently infected cells.

References

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Chang Y, et al. *Nat Struct Mol Biol*. 2009 Mar;16(3):312-7.

Imai K, et al. *J Biol Chem*. 2010 May 28;285(22):16538-45.

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

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