



Data Sheet

Research Use Only

Compound Name

BIX01294 Trihydrochloride Hydrate

Catalog Number

SM12

Alternative Names

BIX 01294, BIX-01294, 2-(Hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6,7-dimethoxy-N-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride

Activity

BIX01294 is a G9a-like protein and G9a histone lysine methyltransferase inhibitor (IC values are 0.7 and 1.7 μ M, respectively) that displays no activity at other histone methyltransferases up to 37 μ M.

Effect

It modulates H3K9me2 levels in mammalian cells and potentiates induction of pluripotent stem cells from somatic cells in vitro.

Purity

>98%

CAS

1392399-03-9

Formula

$C_{28}H_{38}N_6O_2 \cdot 3HCl$

Molecular Weight

600.02

Solubility

DMSO, water

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Tachibana, M., et al., 2002. Genes Dev. 16(14): 1779-1791. PMID: 12130538
2. Wagschal, A., et al. 2008. Mol Cell Biol. 28(3) 1104-1113. PMID: 18039842
3. Thomas, L.R., et al. 2008. J Immunol. 181(1): 485-493. PMID: 18566414
4. Kubicek, S., et al. 2007. Mol Cell. 25(3): 473-481. PMID: 17289593
5. Shi, Y., et al. 2008. Cell Stem Cell. 3(5): 568-574. PMID: 18983970