

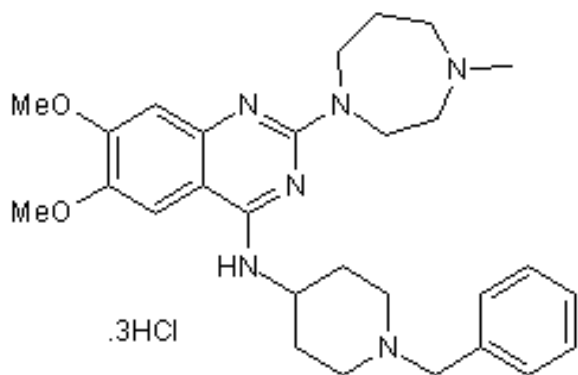
Cat No. 74-O89

BIX01294

5 mg

BIX01294 is a histone lysine methyltransferase (HMTase) inhibitor that modulates the epigenetic status of chromatin. It selectively inhibits the G9a HMTase and the generation of histone H3 lysine 9 methylation. BIX01294, when used in combination with HDAC inhibitor Valproic Acid has been used as a replacement for ectopic OCT4 (POU5F1) and cMyc respectively in pluripotent stem cell induction (iPS) recipes. BIX01294 is a useful for the study of histone lysine methylation, differentiation and reprogramming.

## TECHNICAL INFORMATION



**Other Names:** 2-(Hexahydro-4-methyl-1*H*-1,4-diazepin-1-yl)-6,7-dimethoxy-*N*-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride

**Chemical Formula:** C<sub>28</sub>H<sub>38</sub>N<sub>6</sub>O<sub>2</sub>·3HCl

**CAS Number:** 935693-62-2

**Molecular Weight:** 600.02

**Purity:** >99%

**Appearance:** white solid

**Solubility:** DMSO

Customer Service: 1.866.528.3021  
1.760.230.8608



For research purposes only

## STORAGE AND HANDLING

**Storage:** Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

**Stability:** Stock solutions stable at -20°C for up to 2 years.

**Shipping Conditions:** Shipped at room temperature.

## PRODUCT USE

Soluble in DMSO. For a 10mM concentrated stock solution, reconstitute the compound in 1.02ml of DMSO to the entire contents of the vial. If precipitate is observed, vortex for 5 minutes. For most cells, the maximum tolerance to DMSO is less than 0.5%.

## REFERENCES

1. Chang et al. (2009) Structural basis for G9a-like protein lysine methyltransferase inhibition by BIX-01294. *Nat Struct Mol Biol.* 16(3):312-17.
2. Kubick et al. (2007) Reversal of H3K9me2 by a small-molecule inhibitor for the G9a histone methyltransferase. *Mol Cell.* 25(3): 473-81.
3. Shi et al. (2008) Induction of pluripotent stem cells from mouse embryonic fibroblasts by Oct4 and Klf4 with small-molecule compounds. *Cell Stem Cell.* 3 (5):568-74.



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