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## DATASHEET

BIX 01294

### Product overview

<b>Name</b>	BIX 01294
<b>Cat No</b>	HB1413
<b>Alternative names</b>	BIX-01294
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective GLP / G9a HMTase inhibitor. Potentiates iPSC induction.

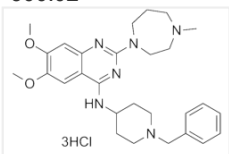
### Biological Data

<b>Biological description</b>	Potent and selective G9a-like protein (GLP) and G9a histone lysine methyltransferase (HMTase) inhibitor (IC <sub>50</sub> values are 0.7 and 1.9 μM respectively). Shows antimalarial and anti-cancer actions. Also potentiates iPSC induction.
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### Solubility & Handling

<b>Storage instructions</b>	room temperature (desiccate)
<b>Solubility overview</b>	Soluble in water (100mM) or DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	2-(Hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6,7-dimethoxy-N-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride
<b>Molecular Weight</b>	600.02
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>28</sub> H <sub>38</sub> N <sub>6</sub> O <sub>2</sub> ·3HCl
<b>CAS Number</b>	1392399-03-9
<b>PubChem identifier</b>	46945860
<b>SMILES</b>	CN(CCC3)CCN3C2=NC1=CC(OC)=C(OC)C=C1C(NC4CCN(CC5=CC=CC=C5)CC4)=N2.Cl.Cl.Cl
<b>InChiKey</b>	FMURUEPQXKJIPS-UHFFFAOYSA-N

### References

#### Reversal of H3K9me2 by a small-molecule inhibitor for the G9a histone methyltransferase.

Kubicek S *et al* (2007) Mol Cell 25(3)

**PubMedID** [17289593](#)

**Small-molecule histone methyltransferase inhibitors display rapid antimalarial activity against all blood stage forms in**

**Plasmodium falciparum.**

Malmquist NA *et al* (2012) Proc Natl Acad Sci U S A 109(41)

**PubMedID** [23011794](#)

**Structural basis for G9a-like protein lysine methyltransferase inhibition by BIX-01294.**

Chang Y *et al* (2009) Nat Struct Mol Biol 16(3)

**PubMedID** [19219047](#)

**Euchromatic histone methyltransferase 2 inhibitor, BIX-01294, sensitizes human promyelocytic leukemia HL-60 and NB4 cells to growth inhibition and differentiation.**

Savickiene J *et al* (2014) Leuk Res 38(7)

**PubMedID** [24832370](#)

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