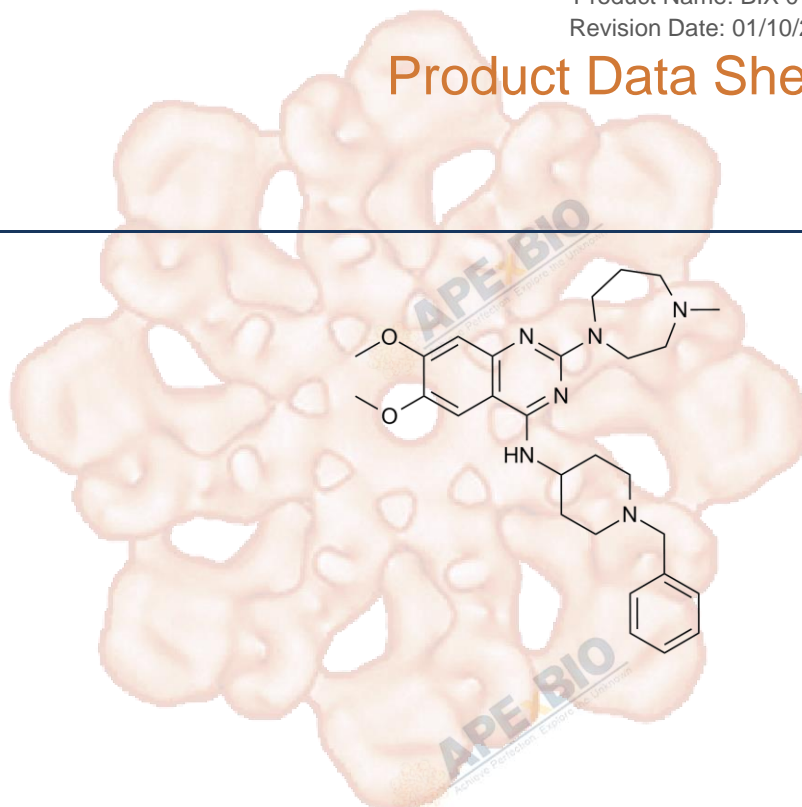


## Product Data Sheet

### BIX 01294

<b>Cat. No.:</b>	A1909
<b>CAS No.:</b>	935693-62-2
<b>Formula:</b>	C <sub>28</sub> H <sub>38</sub> N <sub>6</sub> O <sub>2</sub>
<b>M.Wt:</b>	490.65
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Methyltransferase
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥24.45 mg/mL in DMSO; ≥5.1 mg/mL in EtOH with ultrasonic; ≥51.2 mg/mL in H<sub>2</sub>O

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.0381 mL	10.1906 mL	20.3811 mL
	5 mM		0.4076 mL	2.0381 mL	4.0762 mL
	10 mM		0.2038 mL	1.0191 mL	2.0381 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

G9a and GLP inhibitor

IC<sub>50</sub> & Target

0.7 μM (G9a-like protein), 1.7 μM (G9a histone lysine methyltransferase)

In Vitro

#### Cell Viability Assay

**Cell Line:** Wild-type and G9a deficient mouse embryonic stem (ES) cells, mouse embryonic fibroblasts and human HeLa cells

**Preparation method:** The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

	Reacting conditions:	4.1 $\mu$ M; over 2 days
	Applications:	BIX-01294 (4.1 $\mu$ M) reduced the H3K9me2 Levels in Bulk Histone Preparations from wild-type mouse ES cells, mouse embryonic fibroblasts and human HeLa cells, but not in G9a deficient mouse ES cells.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Kubicek S, O'Sullivan RJ, August EM, Hickey ER, Zhang Q, Teodoro ML, Rea S, Mechtler K, Kowalski JA, Homon CA, Kelly TA, Jenuwein T. Reversal of H3K9me2 by a small-molecule inhibitor for the G9a histone methyltransferase. *Mol Cell*. 2007 Feb 9;25(3):473-81.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

**APExBIO Technology**

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