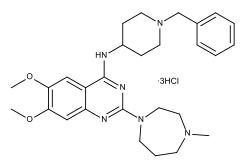


Catalog # 10-1335 BIX-01294

CAS# 935693-62-2

2-(Hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6,7-dimethoxy-N-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride Lot # X104097



BIX-01294 is a selective inhibitor of G9a histone methyltransferase (G9aHMTase; $IC_{50} = 1.7 \mu M$) as well as GLP HMTase ($IC_{50} = 38 \mu M$) leading to a decrease in H3K9me2(histone H3 lysine 9 methylation) *in vitro*.¹ Bix-01294 facilitates the reactivation of pluripotency genes and induces passive demethylation, thus promoting reprogramming. BIX-01294, in combination with BAY K8644 (a calcium channel agonist), was found to improve reprogramming efficiencies of Oct4-Klf4-(OK)-infected neural progenitor cells.³

- 1) Kubicek et al. (2007) *Reversal of H3K9me2 by a small-molecule inhibitor for the G9a histone methyltransferase* Mol. Cell. **25** 473
- 2) Huangfu et al. (2008) Induction of pluripotent stem cells by defined factors is greatly improved by small-molecule compounds Nat. Biotechnol. **26** 795
- 3) Shi Y et al., (2008) A combined chemical and genetic approach for the generation of induced pluripotent stem cells. Cell Stem Cell. **2** 525

PHYSICAL DATA

Molecular Weight:	600.03
Molecular Formula:	C ₂₈ H ₃₈ N ₆ O ₂ · 3HCI
Purity:	>98% (TLC)
Solubility:	Water (up to 50 mg/mL), DMSO (up to 50 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at room temperature for up to one year from the date of purchase. Solutions in
	DMSO or water may be stored at -20°C for up to 3 months

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462 www.focusbiomolecules.com