

BIX-01294

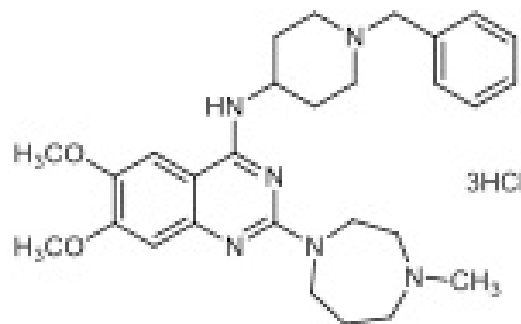
Catalog No: 14072, 14073**Format:** 25 mg, 5 mg**Chemical Properties:**

MW = 600.0

C₂₈H₃₈N₆O₂ · 3HCl

CAS 935693-62-2

Physical Properties: Off white crystalline solid

Names: BIX-01294 3HCl, 2-(Hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6,7-dimethoxy-N-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride

Pharmacology: BIX-01294 is a selective inhibitor of G9a histone methyltransferase (IC₅₀ = 1.7 μM) as well as GLP histone methyltransferase (IC₅₀ = 38 μM) leading to a decrease in histone H3 lysine 9 methylation (H3K9me2) *in vitro* (ref 1). It facilitates the reactivation of pluripotency genes and induces passive demethylation, thus promoting reprogramming (ref 2). 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 (ref 3). It induced apoptosis and decreased proliferation, mobility and invasion in human neuroblastoma cells (ref 4).

Solubilization: May be dissolved in DMSO (50 mg/ml); Water (50 mg/ml)

Fluorescent Properties: N/A

Quality Control:

>98% (TLC); NMR (Conforms)

References:

1. S Kubicek *et al. Mol. Cell* 2007, 25:473
2. D Huangfu *et al. Nat. Biotechnol.* 2008, 26:795
3. Y Shi *et al. Cell Stem Cell* 2008, 2:525
4. Z Lu *et al. Anticancer Drugs* 2013, 24:484

Storage and Guarantee: Store desiccated as supplied at room temperature for up to 2 years. Store solutions at -20°C for up to 3 months. This product is guaranteed for 6 months from date of arrival.