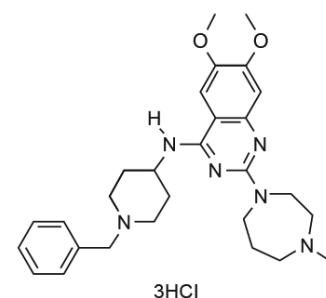


BIX01294

Catalog Number: ST10030



Size	2 mg
Description	BIX01294 is a very specific inhibitor of the G9a ($IC_{50} = 1.9 \mu M$) and G9a-like ($IC_{50} = 0.7 \mu M$) histone methyltransferases which modulates H3K9 levels. It has been shown to enhance reprogramming of mouse embryonic fibroblasts or fetal neural progenitor cells to induced pluripotent stem cells without using c-Myc and Sox2.
Molecular Weight	600.02
Molecular Formula	$C_{28}H_{38}N_6O_2 \cdot 3HCl$
Chemical Name	2-(Hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6,7-dimethoxy-N-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride
CAS Number	1392399-03-9
PubChem Identifier	46945860
Appearance	Yellow solid
Purity	>99% by HPLC analysis
Solubility	Soluble in DMSO at 100 mM and water at 100 mM
Reconstitution	For a 10 mM concentrated stock solution, reconstitute the compound by adding 333 μL of DMSO to the entire contents of vial. If precipitate is observed, warm the solution to 37°C for 2 to 5 minutes.
Recommended Usage	For use in cell culture, warm medium just prior to adding the reconstituted compound. Once the compound is added, mix and filter-sterilize the medium using a 0.2 μM low-protein binding filter. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%.
Storage and Stability	Solid: Shipped at room temperature. Store at -20°C. Stable for 6 months when stored as directed. Solution: Following reconstitution, store aliquots in tightly sealed vials at -20°C. Avoid repeated freeze-thaw cycles.
References	<p>Kubicek, S., et al. (2007) Reversal of H3K9me2 by a small-molecule inhibitor for the G9a histone methyltransferase. <i>Mol Cell</i> 25: 473-481. PMID: 17289593.</p> <p>Shi, Y., et al. (2008) Induction of pluripotent stem cells from mouse embryonic fibroblasts by Oct4 and Klf4 with small-molecule compounds. <i>Cell Stem Cell</i> 3(5): 568-574. PMID: 18983970.</p> <p>Shi, Y., et al. (2008) A combined chemical and genetic approach for the generation of induced pluripotent stem cells. <i>Cell Stem Cell</i> 2: 525-528.</p>

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