

BIX-01294, Histone methyl transferase inhibitor

Catalog	Unit
TBI1335-5MG	5 mg
TBI1335-25MG	25 mg

Product Details

Formal Name: 2-(Hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-6,7-dimethoxy-N-[1-(phenylmethyl)-4-piperidinyl]-4-quinazolinamine trihydrochloride

Molecular Formula: C₂₈H₃₈N₆O₂

Formula Weight: 600.02

CAS Number: 935693-62-2

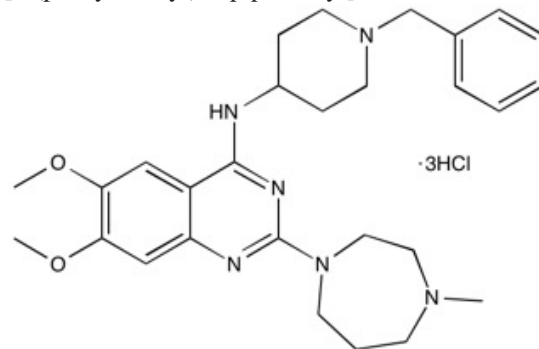
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml), or in Water (up to 50 mg/ml).

Storage: RT

Stability: ≥ 1 year.



Applications

Histone methyl transferase inhibitor

Functions

BIX-01294 is a selective inhibitor of G9a histone methyltransferase (G9aHMTase; IC₅₀ = 1.7 μM) as well as GLP HMTase (IC₅₀ = 38 μM) leading to a decrease in H3K9me₂ (histone H3 lysine 9 methylation) in vitro. 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.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml), or in Water (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20° for up to 3 months.

For research use only.