

BIX01294 (hydrochloride hydrate)

Chemical Properties

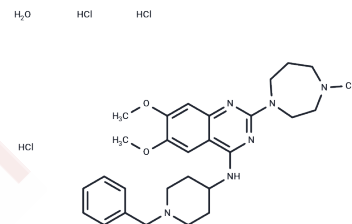
CAS No. : 1808255-64-2

Formula: C₂₈H₄₃Cl₃N₆O₃

Molecular Weight: 618.04

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	The methylation of lysine residues on histones plays a central role in determining euchromatin structure and gene expression. The histone methyltransferase (HMTase) G9a can mono- or dimethylate lysine 9 on histone 3 (H3), contributing to early embryogenesis, genomic imprinting, and lymphocyte development. BIX01294 (hydrochloride hydrate) is a selective inhibitor of G9a HMTase (IC ₅₀ = 1.7 μM). It less effectively inhibits the HMTase G9a-like protein (GLP; IC ₅₀ = 38 μM) and has no effect on other known HMTases. BIX01294 has been used in combination with the calcium channel activator BayK8644 to facilitate the generation of induced pluripotent stem cells from somatic cells in vitro.
Targets(IC ₅₀)	Apoptosis,Others,Histone Methyltransferase,Autophagy

Solubility Information

Solubility	H ₂ O: 10 mg/mL (16.18 mM),Sonication is recommended. DMSO: 5 mg/mL (8.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.618 mL	8.0901 mL	16.1802 mL
5 mM	0.3236 mL	1.618 mL	3.236 mL
10 mM	0.1618 mL	0.809 mL	1.618 mL
50 mM	0.0324 mL	0.1618 mL	0.3236 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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