

JNJ-64619178

Chemical Properties

CAS No. : 2086772-26-9

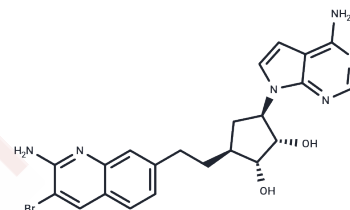
Formula: C₂₂H₂₃BrN₆O₂

Molecular Weight: 483.36

Store under nitrogen

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	JNJ-64619178 is a selective, orally active, and pseudo-irreversible inhibitor of protein arginine methyltransferase 5 (IC ₅₀ : 0.14 nM). It has effective activity In lung cancer.
Targets(IC ₅₀)	Histone Methyltransferase
In vitro	JNJ-64619178 displays effective and broad inhibition of cellular growth. JNJ-64619178 binds simultaneously to the S-adenosylmethionine (SAM)- and protein substrate-binding pockets of the PRMT5/MEP50 complex with a pseudo-irreversible mode-of-action [1].
In vivo	In several non-small cell lung cancer and small cell lung cancer mouse xenograft models, JNJ-64619178 (p.o.) causes efficient inhibition of dimethylation of SMD1/3 proteins, components of the splicing machinery and direct substrates of the methylosome [1].

Solubility Information

Solubility	DMSO: 120 mg/mL (248.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (6.83 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0689 mL	10.3443 mL	20.6885 mL
5 mM	0.4138 mL	2.0689 mL	4.1377 mL
10 mM	0.2069 mL	1.0344 mL	2.0689 mL
50 mM	0.0414 mL	0.2069 mL	0.4138 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.

Reference

Tongfei Wu, et al. Abstract 4859: JNJ-64619178, a selective and pseudo-irreversible PRMT5 inhibitor with potent in vitro and in vivo activity, demonstrated in several lung cancer models.

Tao H, et al. Discovery of Novel PRMT5 Inhibitors by Virtual Screening and Biological Evaluations. Chem Pharm Bull (Tokyo). 2019;67(4):382-388.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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