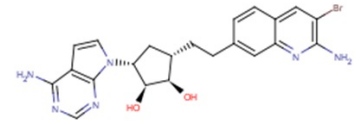


Data Sheet (Cat.No.T15624)

JNJ-64619178

**Chemical Properties**

CAS No.:	2086772-26-9
Formula:	C22H23BrN6O2
Molecular Weight:	483.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



**Biological Description**

Description	JNJ-64619178 is a selective, orally active, and pseudo-irreversible inhibitor of protein arginine methyltransferase 5 (IC50: 0.14 nM). It has effective activity in lung cancer.
Targets(IC50)	PRMT5: 0.14 nM
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: 125 mg/mL (258.61 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.069 mL	10.344 mL	20.689 mL
5 mM	0.414 mL	2.069 mL	4.138 mL
10 mM	0.207 mL	1.034 mL	2.069 mL
50 mM	0.041 mL	0.207 mL	0.414 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. Tao H, et al. Discovery of Novel PRMT5 Inhibitors by Virtual Screening and Biological Evaluations. Chem Pharm Bull (Tokyo). 2019;67(4):382-388.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481