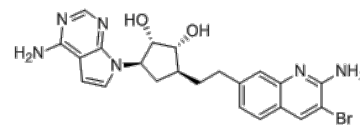


**Product Name** : JNJ-64619178  
**Cat. No.** : PC-72444  
**CAS No.** : 2086772-26-9  
**Molecular Formula** : C<sub>22</sub>H<sub>23</sub>BrN<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 483.37  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** :



## Biological Activity

JNJ-64619178 (Onametostat, JNJ 64619178) is a selective, and potent **PRMT5** inhibitor with Kiapp of 0.77 nM, inhibits the PRMT5/MEP50 complex impairing cancer cell proliferation.

JNJ-64619178 displays high selectivity against 37 purified recombinant human arginine (Arg) and lysine (Lys) methyltransferases, including 4 DNA methyltransferases, with exception of MEP50 (Kd <0.1 nM) and RIOK1 (Kd <0.1 nM). JNJ-64619178 inhibited general nuclear arginine dimethylation by IHC assay on A549 cells (IC<sub>50</sub>=0.2 nM), JNJ-64619178 inhibited dimethylation of SmD1/3 (reduction of SmD1/3-Me<sub>2</sub> levels) by >50% and 80% at 1 and 10 nmol/L concentrations, respectively.

JNJ-64619178 inhibited cell proliferation in a panel of lung cancer cell lines with IC<sub>50</sub> of 0.4-1.9 nM.

JNJ-64619178 demonstrates sustained target engagement associated with potent antitumor activity in tumor-xenograft mouse models.

## References

Brehmer D, et al. *Mol Cancer Ther.* 2021 Dec;20(12):2317-2328.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com