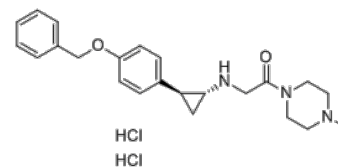


**Product Name** : RN-1 dihydrochloride  
**Cat. No.** : PC-61643  
**CAS No.** : 1781835-13-9  
**Molecular Formula** : C<sub>23</sub>H<sub>29</sub>N<sub>3</sub>O<sub>2</sub>·2HCl  
**Molecular Weight** : 452.42  
**Target** : Histone Demethylase  
**Solubility** : 10 mM in DMSO



## Biological Activity

RN-1 dihydrochloride is a potent, irreversible, brain-penetrant inhibitor of **LSD1** with IC<sub>50</sub> of 70 nM. RN-1 dihydrochloride shows much less effectivity against MAO-A and MAO-B (IC<sub>50</sub>=0.51 and 2.8 μM, respectively). RN-1 dihydrochloride abolishes long-term memory formation without affecting short-term memory in a mouse model. RN-1 dihydrochloride also induces fetal hemoglobin synthesis and reduces disease pathology in sickle cell mice.

## References

- Neelamegam R, et al. *ACS Chem Neurosci*. 2012 Feb 15;3(2):120-128.  
Cui S, et al. *Blood*. 2015 Jul 16;126(3):386-96.  
Rivers A, et al. *Haematologica*. 2016 Jun;101(6):688-97.

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

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