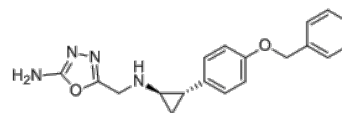


**Product Name** : Vafidemstat  
**Cat. No.** : PC-35471  
**CAS No.** : 1357362-02-7  
**Molecular Formula** : C<sub>19</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 336.395  
**Target** : Histone Demethylase  
**Solubility** : 10 mM in DMSO



1. Maes T, et al. *PLoS One*. 2020 May 29;15(5):e0233468.

### Biological Activity

Vafidemstat (ORY-2001, ORY2001) is a potent, selective, brain penetrant dual lysine-specific histone demethylase (**LSD1**, KDM1A)/**MAO-B** inhibitor with IC<sub>50</sub> of 105 nM (KDM1A) and 58 nM (MAO-B).

ORY-2001 corrects memory deficit and behavior alterations including aggression and social interaction deficits in SAMP8 mice and social avoidance in the rat rearing isolation model.

ORY-2001 increases the responsiveness of IEGs, induces genes required for cognitive function and reduces neuroinflammation in the brain of mouse models of CNS disease.

### References

