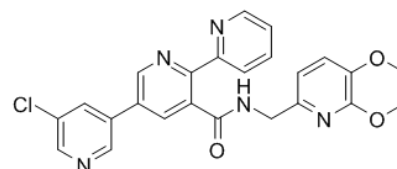


**Product Name** : MK-1064  
**Cat. No.** : PC-45747  
**CAS No.** : 1207253-08-4  
**Molecular Formula** : C<sub>24</sub>H<sub>20</sub>ClN<sub>5</sub>O<sub>3</sub>  
**Molecular Weight** : 461.9003  
**Target** : Orexin Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

MK-1064 is a potent, selective, orally bioavailable Orexin 2 receptor (**OX2R**) antagonist with Ki/IC<sub>50</sub> of 0.5/18 nM.

MK-1064 displays >100-fold selectivity over OX1R.

MK-1064 promotes sleep and increases both rapid eye movement (REM) and non-REM (NREM) sleep in rats and dogs without inducing cataplexy; also decreases ACTH levels in rats.

## References

Roecker AJ, et al. ChemMedChem. 2014 Feb;9(2):311-22.

Gotter AL, et al. Sci Rep. 2016 Jun 3;6:27147.

Grafe LA, et al. Neuroscience. 2017 Apr 21;348:313-323.

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

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