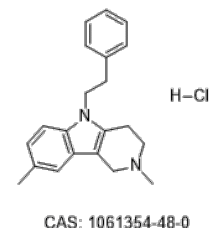


**Product Name** : AVN-101 hydrochloride  
**Cat. No.** : PC-24958  
**CAS No.** : 1061354-48-0  
**Molecular Formula** : C<sub>21</sub>H<sub>25</sub>ClN<sub>2</sub>  
**Molecular Weight** : 340.90  
**Target** : 5-HT Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Maritupirdine hydrochloride (AVN-101) is a highly potent, orally bioavailable, BBB permeable 5-HT<sub>7</sub> receptor antagonist with K<sub>i</sub> of 153 pM, with slightly lesser potency toward 5-HT<sub>6</sub>, 5-HT<sub>2A</sub> and 5HT-2C (K<sub>i</sub> = 1.2-2.0 nM). AVN-101 also exhibits a rather high affinity toward histamine H<sub>1</sub> (K<sub>i</sub> = 0.58 nM) and adrenergic α<sub>2A</sub>, α<sub>2B</sub>, and α<sub>2C</sub> (K<sub>i</sub> = 0.41-3.6 nM) receptors. AVN-101 demonstrates reasonable anxiolytic and anti-depressive activities in animal models of CNS diseases with low safety concerns.

## References

Ivachtchenko AV, et al. J Alzheimers Dis. 2016 May 25;53(2):583-620.

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

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