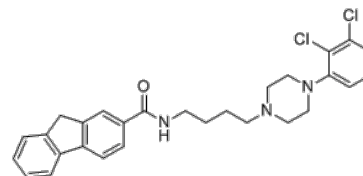


**Product Name** : NGB-2904  
**Cat. No.** : PC-20863  
**CAS No.** : 189060-98-8  
**Molecular Formula** : C<sub>28</sub>H<sub>29</sub>Cl<sub>2</sub>N<sub>3</sub>O  
**Molecular Weight** : 494.46  
**Target** : Dopamine Receptor  
**Solubility** : 10 mM in DMSO



CAS: 189061-11-8

## Biological Activity

NGB-2904 (NGB2904) is a potent, highly selective **dopamine D3 receptor** (D3R) antagonist with K<sub>i</sub> of 2.0 nM for hD3, 56-fold selectivity over hD2.

NGB 2904 inhibits cocaine's rewarding effects and cocaine-induced reinstatement of drug-seeking behavior in rats.

NGB 2904 inhibits cocaine cue-induced reinstatement of drug-seeking behavior in rats.

NGB 2904 (1.0 mg/kg) stimulated spontaneous locomotion in wild-type mice, but was without measurable effect in dopamine D3 receptor knockout mice.

## References

Martelle JL, et al. *J Pharmacol Exp Ther*. 2007 May;321(2):573-82.

Grundt P, et al. *J Med Chem*. 2005 Feb 10;48(3):839-48.

Xi ZX, et al. *Neuropsychopharmacology*. 2006 Jul;31(7):1393-405.

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

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