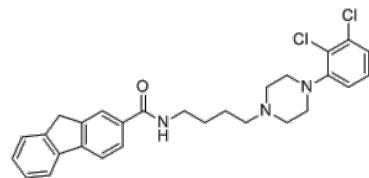

Product Name	:	NGB-2904
Cat. No.	:	PC-20863
CAS No.	:	189060-98-8
Molecular Formula	:	C ₂₈ H ₂₉ Cl ₂ N ₃ O
Molecular Weight	:	494.46
Target	:	Dopamine Receptor
Solubility	:	10 mM in DMSO



CAS: 189061-11-8

Biological Activity

NGB-2904 (NGB2904) is a potent, highly selective **dopamine D3 receptor** (D3R) antagonist with Ki 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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