Quinelorane dihydrochloride

Cat. No.: HY-103429

CAS No.: 97548-97-5

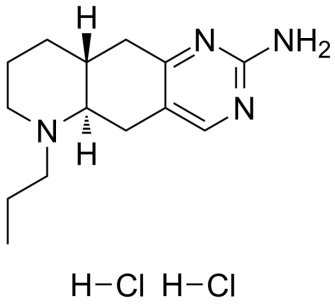
Molecular Formula: $C_{14}H_{24}Cl_2N_4$

Molecular Weight: 319.27

Target: Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (313.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1321 mL	15.6607 mL	31.3215 mL
	5 mM	0.6264 mL	3.1321 mL	6.2643 mL
	10 mM	0.3132 mL	1.5661 mL	3.1321 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Quinelorane dihydrochloride (LY163502) is a potent dopamine D3/D2 receptor agonist. Quinelorane has the potential for neurological and psychiatric disorders research[1][2].

IC_{50} & Target	D_2 Receptor	D_3 Receptor

In Vivo

Quinelorane dihydrochloride (LY163502; 0.003, 0.01 mg/kg; s.c.) reduces GABA efflux, with significant effects with 0.01 but not 0.003 mg/kg in male Wistar rats (300 g)[1].

Quinelorane dihydrochloride (0.032, 0.32, 3.2, 5.6 mg/kg; IP) significantly and dose-dependently increases locomotor activity in the Sprague Dawley rats. There was no main effect of sex and sex interaction[1].

Quinelorane dihydrochloride significantly decreases activity in the male and female inbred FVB/NJ, BALB/cJ, BALB/cByJ, C57BL/6J, Swiss Webster, A/J, DBA/2J, 129S1/SvImJ, and 129S6/SvEvTac mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ying Qu, et al. Quinelorane, a dopamine D3/D2 receptor agonist, reduces prepulse inhibition of startle and ventral pallidal GABA efflux: time course studies. Pharmacol Biochem Behav. 2008 Oct;90(4):686-90.

[2]. Morgane Thomsen, et al. Psychomotor stimulation by dopamine D_1-like but not D_2-like agonists in most mouse strains. Exp Clin Psychopharmacol. 2011 Oct;19(5):342-60.

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